



BC

LABORATORIES, INC.

Work Order Number: 1719853

**Laboratory Documentation Requirements
For Data Validation of
Volatile Analysis**

**Prepared By
BC Laboratories**

For AMEC Environmental & Infrastructure-

5023146096

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Case Narrative

Analyses Requested: 8260

Submission Number: 17-19853

Instrument ID: MS-V5

Model: HP5973/GC6890

Column Type: Rxi R-624 Sil MS 30m x 0.25mm ID, 1.4 μ m film thickness.

Samples were received refrigerated to <6°C upon arrival at BC Laboratories, Inc. Samples were checked for preservation. Where applicable, sample preservation was adjusted in the laboratory.

Holding Time: All analyses and extractions took place within holding times.

Calibration: Initial calibration criteria were met. Frequency and accuracy criteria for initial calibration verification (ICV) were met. Frequency and accuracy criteria for continuing calibration verification (CCV) were met. Ending CCV criteria of fifty percent were met. Any compounds that were flagged, but not required, were not noted here.

Blanks: Method blank was prepared and analyzed at the required frequency. No detection of analytes of interest took place at or above the PQL. Initial and continuing calibration blanks were analyzed at the required frequencies and on an as needed basis.

Laboratory Control Sample: Laboratory control sample analysis was performed at the required frequency. All parameters for the requested compounds were within QC limits.

Matrix Spikes and Duplicates: Matrix spike analyses were performed at the required frequencies. All accuracy and precision requirements for the requested compounds were met.

Chain of Custody and Cooler Receipt Form for 1719853 Page 1 of 2

17-19853
CHAIN OF CUSTODY

NMEC Group 9117 Sky Park Court San Diego, CA (619) 278-3800		SHIP TO: BC Laboratories 4100 Alitas Court Bakersfield, CA 93308 Attn: Tina Green Lab Phone# 661-852-4204	
Project Name:	Alameda Basewide	Project Contact:	Marie Bevier (408) 620-3400 03 ****
Project Number:	5023146090	Phone Number:	
Project Manager:	Karen Orms	Project Phaser:	

Sample Information

No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	VOCs- Short List		Comments:
					MSMSD	RUSH	
1	EB16_170719	07/19/17 14:20	WG	E8	X		
2	M108-01_170719	07/19/17 09:35	WG	N	X	Z	
3	M113-07_170719	07/19/17 14:10	WG	N	X	Z	
4	M113-09_170719	07/19/17 13:30	WG	N	N	X	
5	MW530-1_170719	07/19/17 10:25	WG	N	N	X	
6	MW530-2_170719	07/19/17 11:10	WG	N	N	X	
7	MWCR-4_170719	07/19/17 12:55	WG	N	N	X	
8							
9							
10							
11							
12							

Sampler's Signature: Ulf RunkDate: 7/19/17Time: 14:50

For Lab Use

Does COC match samples: Y or N

Comments: X=Analyze H=Hold Analysis Request

Broken Container: Y or N

Report DLJ/ODL/LOQ with Navy NIRIS valid values

COC seal intact: Y or N

VOC Short List: Benzene and Ethylbenzene Only

Other problems: Y or N

Major Calcs: Na+, K+, Ca++, Mg++

Date contacted: _____

Date contacted: _____

Cooler Temperature at receipt: _____ °C

NUMBER OF COOLERS SENT: _____

HOLD till Analyze

TOTAL BOTTLES

Shipment Method:

Carrier:

NA

5 DWTs

72 Hour

as Hour

RUSH

C/HK BY SUR
JWS

DISINFECTION

SHUT-DOWN

SHUT-OUT

Does COC match samples: Y or N

Comments: X=Analyze H=Hold Analysis Request

Broken Container: Y or N

Report DLJ/ODL/LOQ with Navy NIRIS valid values

COC seal intact: Y or N

VOC Short List: Benzene and Ethylbenzene Only

Other problems: Y or N

Major Calcs: Na+, K+, Ca++, Mg++

Date contacted: _____

Date contacted: _____

Cooler Temperature at receipt: _____ °C

NUMBER OF COOLERS SENT: _____

Does COC match samples: Y or N

Comments: X=Analyze H=Hold Analysis Request

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Date contacted: _____

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Major Calcs: Na+, K+, Ca++, Mg++

Date contacted: _____

Date contacted: _____

Cooler Temperature at receipt: _____ °C

NUMBER OF COOLERS SENT: _____

Does COC match samples: Y or N

Comments: X=Analyze H=Hold Analysis Request

Broken Container: Y or N

Report DLJ/ODL/LOQ with Navy NIRIS valid values

BC

Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1719853 Page 2 of 2

BC LABORATORIES INC.		COOLER RECEIPT FORM						Page <u>1</u> Of <u>1</u>		
Submission #: <u>17-19853</u>										
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____				SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____				FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> <u>(W / S)</u>		
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>										
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Emissivity <u>0.95</u> Container <u>Temp Blank</u> Thermometer <u>008</u> Temperature: (A) <u>3.0</u> °C / (C) <u>3.3</u> °C				Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date/Time <u>7/19/2010</u> Analyst Init <u>JM</u>				
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
ENORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	
QTEPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QTEPA 503/608/3090										
QTEPA 515.1/8150										
QTEPA 525										
QTEPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.I										
8oz EPA 548										
QTEPA 549										
QTEPA 8015M										
QTEPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										
Comments:										
Sample Numbering Completed By: <u>AJG</u>	Date/Time: <u>7-20-17 0850</u>									
4 = Actual / C = Corrected	Rev 21 05/23/2016 (S:\WFDoc\WordPerfectLAB_DOCS\FORMS\16AMREC\rev20)									



Laboratories, Inc.

Environmental Testing Laboratory Since 1949

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM

Project: Alameda

Project Number: 5023146096

Project Manager: Kevin Olness

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: 17-19853

Class: VOA

Method: EPA-8260B



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSES DATA PACKAGE COVER PAGE**EPA-8260B**

Laboratory: BC Laboratories

SDG: 17-19853

Client: AMEC Environmental & Infrastructure- \$AMCN

Project: Alameda

Client Sample Id:

EB16_170719
M10B-01_170719
M13-07_170719
M13-09_170719
MW530-1_170719
MW530-2_170719
MWOR-4_170719

Lab Sample Id:

1719853-01
1719853-02
1719853-03
1719853-04
1719853-05
1719853-06
1719853-07

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature:

Name: Sara Guron

Date:

08-01-2017

Title: QA/QC Manager



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS EPA-8260B

Laboratory: BC Laboratories

SDG: 17-19853

Client: AMEC Environmental & Infrastructure- \$AMCN

Project: Alameda

Matrix: Water

Instrument: MS-V5

Analyte	DL	LOD	LOQ	Units
Benzene	0.083	0.16	0.50	ug/L
Bromobenzene	0.13	0.16	0.50	ug/L
Bromochloromethane	0.24	0.30	1.0	ug/L
Bromodichloromethane	0.14	0.30	0.50	ug/L
Bromoform	0.27	0.30	0.60	ug/L
Bromomethane	0.25	0.25	0.60	ug/L
n-Butylbenzene	0.11	0.16	0.50	ug/L
sec-Butylbenzene	0.15	0.16	0.50	ug/L
tert-Butylbenzene	0.13	0.16	0.50	ug/L
Carbon tetrachloride	0.18	0.20	0.50	ug/L
Chlorobenzene	0.093	0.16	0.50	ug/L
Chloroethane	0.14	0.16	0.50	ug/L
Chloroform	0.12	0.16	0.50	ug/L
Chloromethane	0.14	0.16	0.50	ug/L
2-Chlorotoluene	0.20	0.20	0.50	ug/L
4-Chlorotoluene	0.15	0.16	0.50	ug/L
Dibromochloromethane	0.13	0.16	0.50	ug/L
1,2-Dibromo-3-chloropropane	0.44	0.50	1.0	ug/L
1,2-Dibromoethane	0.16	0.16	0.50	ug/L
Dibromomethane	0.24	0.30	1.0	ug/L
1,2-Dichlorobenzene	0.072	0.16	0.50	ug/L
1,3-Dichlorobenzene	0.15	0.16	0.50	ug/L
1,4-Dichlorobenzene	0.062	0.16	0.50	ug/L
Dichlorodifluoromethane	0.099	0.16	0.50	ug/L
1,1-Dichloroethane	0.11	0.16	0.50	ug/L
1,2-Dichloroethane	0.17	0.20	0.50	ug/L
1,1-Dichloroethene	0.18	0.20	0.50	ug/L
cis-1,2-Dichloroethene	0.085	0.16	0.50	ug/L
trans-1,2-Dichloroethene	0.15	0.16	0.50	ug/L
1,2-Dichloropropane	0.13	0.16	0.50	ug/L



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS**EPA-8260B**

Laboratory: BC Laboratories

SDG: 17-19853

Client: AMEC Environmental & Infrastructure- \$AMCN

Project: Alameda

Matrix: Water

Instrument: MS-V5

Analyte	DL	LOD	LOQ	Units
1,3-Dichloropropane	0.086	0.16	0.50	ug/L
2,2-Dichloropropane	0.13	0.16	0.50	ug/L
1,1-Dichloropropene	0.085	0.16	0.50	ug/L
cis-1,3-Dichloropropene	0.14	0.16	0.50	ug/L
trans-1,3-Dichloropropene	0.079	0.16	0.50	ug/L
Ethylbenzene	0.098	0.16	0.50	ug/L
Hexachlorobutadiene	0.17	0.20	0.50	ug/L
Isopropylbenzene	0.14	0.16	0.50	ug/L
p-Isopropyltoluene	0.12	0.16	0.50	ug/L
Methylene chloride	0.48	0.50	1.0	ug/L
Methyl t-butyl ether	0.11	0.16	0.50	ug/L
Naphthalene	0.36	0.40	0.50	ug/L
n-Propylbenzene	0.11	0.16	0.50	ug/L
Styrene	0.068	0.16	0.50	ug/L
1,1,1,2-Tetrachloroethane	0.18	0.20	0.50	ug/L
1,1,2,2-Tetrachloroethane	0.17	0.20	0.50	ug/L
Tetrachloroethene	0.13	0.16	0.50	ug/L
Toluene	0.093	0.16	0.50	ug/L
1,2,3-Trichlorobenzene	0.16	0.16	0.50	ug/L
1,2,4-Trichlorobenzene	0.19	0.20	0.50	ug/L
1,1,1-Trichloroethane	0.11	0.16	0.50	ug/L
1,1,2-Trichloroethane	0.16	0.16	0.50	ug/L
Trichloroethene	0.085	0.16	0.50	ug/L
Trichlorofluoromethane	0.13	0.16	0.50	ug/L
1,2,3-Trichloropropane	0.24	0.33	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	0.15	0.16	0.50	ug/L
1,2,4-Trimethylbenzene	0.12	0.16	0.50	ug/L
1,3,5-Trimethylbenzene	0.12	0.16	0.50	ug/L
Vinyl chloride	0.12	0.16	0.50	ug/L
Total Xylenes	0.36	0.46	1.0	ug/L



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

EPA-8260B

Laboratory: BC Laboratories

SDG: 17-19853

Client: AMEC Environmental & Infrastructure- \$AMCN

Project: Alameda

Matrix: Water

Instrument: MS-V5

Analyte	DL	LOD	LOQ	Units
Acetone	4.6	5.0	10	ug/L
Acetonitrile	5.5	6.0	10	ug/L
Allyl chloride	0.80	1.0	5.0	ug/L
t-Amyl Methyl ether	0.25	0.30	0.50	ug/L
Benzyl chloride	0.60	0.60	1.0	ug/L
t-Butyl alcohol	9.4	10	12	ug/L
Carbon disulfide	0.38	0.40	1.0	ug/L
Chloroprene	0.37	1.0	5.0	ug/L
Diisopropyl ether	0.23	0.30	0.50	ug/L
Ethyl t-butyl ether	0.18	0.20	0.50	ug/L
2-Hexanone	3.4	4.0	10	ug/L
Methyl ethyl ketone	2.5	3.0	10	ug/L
Methyl isobutyl ketone	2.1	3.0	10	ug/L
Vinyl acetate	1.8	6.0	20	ug/L



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET EPA-8260B

EB16_170719

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Matrix:	<u>Water</u>	Laboratory ID:	<u>1719853-01</u>
Sampled:	<u>07/19/17 14:20</u>	Prepared:	<u>07/24/17 06:00</u>
Solids:		Preparation:	<u>EPA 5030 Water MS</u>
Batch:	<u>B[G1819</u>	Sequence:	<u>1712906</u>
		Calibration:	<u>1707017</u>
			Instrument: <u>MS-V5</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.3000	93.0	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7400	97.4	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.5500	95.5	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	190274	6.58	197596	6.57	
Chlorobenzene-d5 (IS)	77240	9.61	77983	9.62	
1,4-Difluorobenzene (IS)	291600	7.38	299126	7.38	

* Values outside of QC limits



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET EPA-8260B

M10B-01_170719

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Matrix:	<u>Water</u>	Laboratory ID:	<u>1719853-02</u>
Sampled:	<u>07/19/17 09:35</u>	Prepared:	<u>07/24/17 06:00</u>
Solids:		Preparation:	<u>EPA 5030 Water MS</u>
Batch:	<u>B[G1819</u>	Sequence:	<u>1712906</u>
		Calibration:	<u>1707017</u>
			Instrument: <u>MS-V5</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.6800	96.8	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7600	97.6	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.9800	99.8	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	184244	6.58	197596	6.57	
Chlorobenzene-d5 (IS)	73037	9.61	77983	9.62	
1,4-Difluorobenzene (IS)	282223	7.39	299126	7.38	

* Values outside of QC limits



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET EPA-8260B

M13-07_170719

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Matrix:	<u>Water</u>	Laboratory ID:	<u>1719853-03</u>
Sampled:	<u>07/19/17 14:10</u>	Prepared:	<u>07/24/17 06:00</u>
Solids:		Preparation:	<u>EPA 5030 Water MS</u>
Batch:	<u>B[G1819</u>	Sequence:	<u>1712906</u>
		Calibration:	<u>1707017</u>
			Instrument: <u>MS-V5</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.5700	95.7	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7500	97.5	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.010	100	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	180751	6.57	197596	6.57	
Chlorobenzene-d5 (IS)	71704	9.61	77983	9.62	
1,4-Difluorobenzene (IS)	269125	7.38	299126	7.38	

* Values outside of QC limits



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET EPA-8260B

M13-09_170719

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Matrix:	<u>Water</u>	Laboratory ID:	<u>1719853-04</u>
Sampled:	<u>07/19/17 13:30</u>	Prepared:	<u>07/24/17 06:00</u>
Solids:		Preparation:	<u>EPA 5030 Water MS</u>
Batch:	<u>B[G1819</u>	Sequence:	<u>1712906</u>
		Calibration:	<u>1707017</u>
			Instrument: <u>MS-V5</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.7600	97.6	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.6100	96.1	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.5600	95.6	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	184146	6.58	197596	6.57	
Chlorobenzene-d5 (IS)	74961	9.62	77983	9.62	
1,4-Difluorobenzene (IS)	284255	7.38	299126	7.38	

* Values outside of QC limits



AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET EPA-8260B

MW530-1_170719

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Matrix:	<u>Water</u>	Laboratory ID:	<u>1719853-05</u>
Sampled:	<u>07/19/17 10:25</u>	Prepared:	<u>07/24/17 06:00</u>
Solids:		Preparation:	<u>EPA 5030 Water MS</u>
Batch:	<u>B[G1819</u>	Sequence:	<u>1712906</u>
		Calibration:	<u>1707017</u>
			Instrument: <u>MS-V5</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.65	0.098	0.16	0.50	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.140	101	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8500	98.5	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.100	101	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	174397	6.57	197596	6.57	
Chlorobenzene-d5 (IS)	72629	9.61	77983	9.62	
1,4-Difluorobenzene (IS)	270659	7.38	299126	7.38	

* Values outside of QC limits



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
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Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET EPA-8260B

MW530-2_170719

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Matrix:	<u>Water</u>	Laboratory ID:	<u>1719853-06</u>
Sampled:	<u>07/19/17 11:10</u>	Prepared:	<u>07/24/17 06:00</u>
Solids:		Preparation:	<u>EPA 5030 Water MS</u>
Batch:	<u>B[G1819</u>	Sequence:	<u>1712906</u>
		Calibration:	<u>1707017</u>
			Instrument: <u>MS-V5</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.7700	97.7	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8000	98.0	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6500	96.5	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	183079	6.58	197596	6.57	
Chlorobenzene-d5 (IS)	74220	9.62	77983	9.62	
1,4-Difluorobenzene (IS)	281507	7.38	299126	7.38	

* Values outside of QC limits



AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET EPA-8260B

MWOR-4_170719

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Matrix:	<u>Water</u>	Laboratory ID:	<u>1719853-07</u>
Sampled:	<u>07/19/17 12:55</u>	Prepared:	<u>07/24/17 06:00</u>
Solids:		Preparation:	<u>EPA 5030 Water MS</u>
Batch:	<u>B[G1819</u>	Sequence:	<u>1712906</u>
		Calibration:	<u>1707017</u>
			Instrument: <u>MS-V5</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.5700	95.7	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.6800	96.8	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.9800	99.8	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	185183	6.57	197596	6.57	
Chlorobenzene-d5 (IS)	73837	9.62	77983	9.62	
1,4-Difluorobenzene (IS)	291525	7.38	299126	7.38	

* Values outside of QC limits



AMEC Environmental & Infrastructure-
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Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY**EPA-8260B**

Laboratory: BC Laboratories SDG: 17-19853

Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda

Batch: B[G1819 Batch Matrix: Water Preparation: EPA 5030 Water MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
EB16_170719	1719853-01	24JUL43.D	07/24/17 06:00	short list - Benzene & Ethylbenzen only
M10B-01_170719	1719853-02	24JUL44.D	07/24/17 06:00	short list - Benzene & Ethylbenzen only
M13-07_170719	1719853-03	24JUL45.D	07/24/17 06:00	short list - Benzene & Ethylbenzen only
M13-09_170719	1719853-04	24JUL46.D	07/24/17 06:00	short list - Benzene & Ethylbenzen only
MW530-1_170719	1719853-05	24JUL47.D	07/24/17 06:00	short list - Benzene & Ethylbenzen only
MW530-2_170719	1719853-06	24JUL48.D	07/24/17 06:00	short list - Benzene & Ethylbenzen only
MWOR-4_170719	1719853-07	24JUL49.D	07/24/17 06:00	short list - Benzene & Ethylbenzen only
Blank	B[G1819-BLK1	24JUL06.D	07/24/17 06:00	
LCS	B[G1819-BS1	24JUL08.D	07/24/17 06:00	
Matrix Spike	B[G1819-MS1	24JUL09.D	07/24/17 06:00	
Matrix Spike Dup	B[G1819-MSD1	24JUL10.D	07/24/17 06:00	



AMEC Environmental & Infrastructure-
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Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	<u>BC Laboratories</u>		SDG:	<u>17-19853</u>	
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>		Project:	<u>Alameda</u>	
Matrix:	<u>Water</u>	Laboratory ID:	<u>B[G1819-BLK1]</u>	File ID:	<u>24JUL06.D</u>
Prepared:	<u>07/24/17 06:00</u>	Preparation:	<u>EPA 5030 Water MS</u>	Initial/Final:	<u>25 ml / 25 ml</u>
Analyzed:	<u>07/24/17 06:12</u>	Instrument:	<u>MS-V5</u>		
Batch:	<u>B[G1819</u>	Sequence:	<u>1712906</u>	Calibration:	<u>1707017</u>

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	0.16	0.083	0.16	0.50	U
100-41-4	Ethylbenzene	0.16	0.098	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.6700	96.7	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9800	99.8	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.9300	99.3	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	194279	6.58	191086	6.57	
Chlorobenzene-d5 (IS)	79322	9.61	76029	9.61	
1,4-Difluorobenzene (IS)	297409	7.38	299997	7.38	



AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Matrix:	<u>Water</u>		
Batch:	<u>B[G1819</u>	Laboratory ID:	<u>B[G1819-MS1</u>
Preparation:	<u>EPA 5030 Water MS</u>	Initial/Final:	<u>25 ml / 25 ml</u>
Source Sample Number: <u>1719849-10RE1</u>			

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Benzene	125.00	9.2000	135.70	101	79 - 120
Bromobenzene	125.00	ND	126.70	101	80 - 120
Bromochloromethane	125.00	ND	121.65	97.3	78 - 123
Bromodichloromethane	125.00	ND	123.90	99.1	79 - 125
Bromoform	125.00	ND	136.80	109	66 - 130
Bromomethane	125.00	ND	116.35	93.1	53 - 141
n-Butylbenzene	125.00	1.4500	137.65	109	75 - 128
sec-Butylbenzene	125.00	2.4500	139.35	110	77 - 126
tert-Butylbenzene	125.00	ND	129.65	104	78 - 124
Carbon tetrachloride	125.00	ND	132.95	106	72 - 136
Chlorobenzene	125.00	0.80000	118.40	94.1	82 - 118
Chloroethane	125.00	ND	123.10	98.5	60 - 138
Chloroform	125.00	1.7000	123.80	97.7	79 - 124
Chloromethane	125.00	ND	100.25	80.2	50 - 139
2-Chlorotoluene	125.00	ND	122.95	98.4	79 - 122
4-Chlorotoluene	125.00	ND	120.65	96.5	78 - 122
Dibromochloromethane	125.00	ND	130.70	105	74 - 126
1,2-Dibromo-3-chloropropane	125.00	ND	119.75	95.8	62 - 128
1,2-Dibromoethane	125.00	ND	127.20	102	77 - 121
Dibromomethane	125.00	ND	127.20	102	79 - 123
1,2-Dichlorobenzene	125.00	20.300	136.25	92.8	80 - 119
1,3-Dichlorobenzene	125.00	ND	121.20	97.0	80 - 119
1,4-Dichlorobenzene	125.00	3.0000	122.05	95.2	79 - 118
Dichlorodifluoromethane	125.00	ND	130.20	104	32 - 152
1,1-Dichloroethane	125.00	ND	125.45	100	77 - 125



AMEC Environmental & Infrastructure-
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Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike

Laboratory: BC Laboratories SDG: 17-19853
 Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda
 Matrix: Water
 Batch: B[G1819 Laboratory ID: B[G1819-MS1
 Preparation: EPA 5030 Water MS Initial/Final: 25 ml / 25 ml
 Source Sample Number: 1719849-10RE1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,2-Dichloroethane	125.00	ND	110.00	88.0	73 - 128
1,1-Dichloroethene	125.00	1.3000	135.60	107	71 - 131
cis-1,2-Dichloroethene	125.00	134.70	260.90	101	78 - 123
trans-1,2-Dichloroethene	125.00	1.6000	134.05	106	75 - 124
1,2-Dichloropropane	125.00	ND	125.15	100	78 - 122
1,3-Dichloropropane	125.00	ND	117.35	93.9	80 - 119
2,2-Dichloropropane	125.00	ND	134.90	108	60 - 139
1,1-Dichloropropene	125.00	ND	126.85	101	79 - 125
cis-1,3-Dichloropropene	125.00	ND	132.40	106	75 - 124
trans-1,3-Dichloropropene	125.00	ND	131.45	105	73 - 127
Ethylbenzene	125.00	27.550	156.65	103	79 - 121
Hexachlorobutadiene	125.00	ND	124.40	99.5	66 - 134
Isopropylbenzene	125.00	5.0000	138.35	107	72 - 131
p-Isopropyltoluene	125.00	2.5500	139.45	110	77 - 127
Methylene chloride	125.00	ND	123.05	98.4	74 - 124
Methyl t-butyl ether	125.00	ND	118.60	94.9	71 - 124
Naphthalene	125.00	36.700	169.25	106	61 - 128
n-Propylbenzene	125.00	5.9500	129.95	99.2	76 - 126
Styrene	125.00	ND	132.95	106	78 - 123
1,1,1,2-Tetrachloroethane	125.00	ND	132.10	106	78 - 124
1,1,2,2-Tetrachloroethane	125.00	ND	121.50	97.2	71 - 121
Tetrachloroethene	125.00	ND	136.35	109	74 - 129
Toluene	125.00	95.950	224.30	103	80 - 121
1,2,3-Trichlorobenzene	125.00	ND	126.75	101	69 - 129
1,2,4-Trichlorobenzene	125.00	1.0500	133.95	106	69 - 130



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike

Laboratory: BC Laboratories SDG: 17-19853
 Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda
 Matrix: Water
 Batch: B[G1819 Laboratory ID: B[G1819-MS1
 Preparation: EPA 5030 Water MS Initial/Final: 25 ml / 25 ml
 Source Sample Number: 1719849-10RE1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,1,1-Trichloroethane	125.00	ND	128.75	103	74 - 131
1,1,2-Trichloroethane	125.00	ND	122.05	97.6	80 - 119
Trichloroethene	125.00	1.0500	131.05	104	79 - 123
Trichlorofluoromethane	125.00	ND	127.80	102	65 - 141
1,2,3-Trichloropropane	125.00	ND	126.00	101	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	125.00	ND	139.55	112	70 - 136
1,2,4-Trimethylbenzene	125.00	53.350	177.75	99.5	76 - 124
1,3,5-Trimethylbenzene	125.00	10.200	150.60	112	75 - 124
Vinyl chloride	125.00	159.35	270.65	89.0	58 - 137
Total Xylenes	375.00	96.100	471.15	100	79 - 121
Acetone	1600.0	ND	1426.8	89.2	39 - 160
Acetonitrile	800.00	ND	788.10	98.5	50 - 142
Allyl chloride	160.00	ND	160.55	100	68 - 130
t-Amyl Methyl ether	80.000	ND	76.050	95.1	68 - 128
Benzyl chloride	160.00	ND	193.80	121	42 - 138
t-Butyl alcohol	4000.0	ND	3668.2	91.7	68 - 129
Carbon disulfide	160.00	ND	167.30	105	64 - 133
Chloroprene	160.00	ND	153.25	95.8	65 - 135
Diisopropyl ether	80.000	ND	79.850	99.8	67 - 128
Ethyl t-butyl ether	80.000	ND	74.100	92.6	70 - 127
2-Hexanone	1600.0	ND	1467.8	91.7	57 - 139
Methyl ethyl ketone	800.00	ND	723.30	90.4	56 - 143
Methyl isobutyl ketone	800.00	ND	759.20	94.9	67 - 130
Vinyl acetate	800.00	ND	748.80	93.6	54 - 146



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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike Dup

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Matrix:	<u>Water</u>		
Batch:	<u>B[G1819</u>	Laboratory ID:	<u>B[G1819-MSD1</u>
Preparation:	<u>EPA 5030 Water MS</u>	Initial/Final:	<u>25 ml / 25 ml</u>
Source Sample Number: <u>1719849-10RE1</u>			

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Benzene	125.00	129.80	96.5	4.44	30	79 - 120
Bromobenzene	125.00	126.10	101	0.475	30	80 - 120
Bromochloromethane	125.00	118.85	95.1	2.33	30	78 - 123
Bromodichloromethane	125.00	121.25	97.0	2.16	30	79 - 125
Bromoform	125.00	140.95	113	2.99	30	66 - 130
Bromomethane	125.00	112.50	90.0	3.36	30	53 - 141
n-Butylbenzene	125.00	132.10	105	4.11	30	75 - 128
sec-Butylbenzene	125.00	136.65	107	1.96	30	77 - 126
tert-Butylbenzene	125.00	128.20	103	1.12	30	78 - 124
Carbon tetrachloride	125.00	124.65	99.7	6.44	30	72 - 136
Chlorobenzene	125.00	118.35	94.0	0.0422	30	82 - 118
Chloroethane	125.00	115.55	92.4	6.33	30	60 - 138
Chloroform	125.00	117.85	92.9	4.92	30	79 - 124
Chloromethane	125.00	92.850	74.3	7.66	30	50 - 139
2-Chlorotoluene	125.00	121.95	97.6	0.817	30	79 - 122
4-Chlorotoluene	125.00	119.95	96.0	0.582	30	78 - 122
Dibromochloromethane	125.00	129.95	104	0.575	30	74 - 126
1,2-Dibromo-3-chloropropane	125.00	125.65	101	4.81	30	62 - 128
1,2-Dibromoethane	125.00	121.85	97.5	4.30	30	77 - 121
Dibromomethane	125.00	125.40	100	1.43	30	79 - 123
1,2-Dichlorobenzene	125.00	136.45	92.9	0.147	30	80 - 119
1,3-Dichlorobenzene	125.00	121.90	97.5	0.576	30	80 - 119
1,4-Dichlorobenzene	125.00	122.15	95.3	0.0819	30	79 - 118
Dichlorodifluoromethane	125.00	119.85	95.9	8.28	30	32 - 152
1,1-Dichloroethane	125.00	119.65	95.7	4.73	30	77 - 125
1,2-Dichloroethane	125.00	108.85	87.1	1.05	30	73 - 128



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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike Dup

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Matrix:	<u>Water</u>		
Batch:	<u>B[G1819</u>	Laboratory ID:	<u>B[G1819-MSD1</u>
Preparation:	<u>EPA 5030 Water MS</u>	Initial/Final:	<u>25 ml / 25 ml</u>
Source Sample Number: <u>1719849-10RE1</u>			

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
1,1-Dichloroethene	125.00	126.10	99.8	7.26	30	71 - 131
cis-1,2-Dichloroethene	125.00	248.70	91.2	4.79	30	78 - 123
trans-1,2-Dichloroethene	125.00	125.95	99.5	6.23	30	75 - 124
1,2-Dichloropropane	125.00	119.05	95.2	5.00	30	78 - 122
1,3-Dichloropropane	125.00	113.85	91.1	3.03	30	80 - 119
2,2-Dichloropropane	125.00	126.75	101	6.23	30	60 - 139
1,1-Dichloropropene	125.00	118.85	95.1	6.51	30	79 - 125
cis-1,3-Dichloropropene	125.00	125.75	101	5.15	30	75 - 124
trans-1,3-Dichloropropene	125.00	122.60	98.1	6.97	30	73 - 127
Ethylbenzene	125.00	155.15	102	0.962	30	79 - 121
Hexachlorobutadiene	125.00	122.70	98.2	1.38	30	66 - 134
Isopropylbenzene	125.00	135.00	104	2.45	30	72 - 131
p-Isopropyltoluene	125.00	134.85	106	3.35	30	77 - 127
Methylene chloride	125.00	121.65	97.3	1.14	30	74 - 124
Methyl t-butyl ether	125.00	118.30	94.6	0.253	30	71 - 124
Naphthalene	125.00	172.45	109	1.87	30	61 - 128
n-Propylbenzene	125.00	128.20	97.8	1.36	30	76 - 126
Styrene	125.00	134.25	107	0.973	30	78 - 123
1,1,1,2-Tetrachloroethane	125.00	132.80	106	0.528	30	78 - 124
1,1,2,2-Tetrachloroethane	125.00	130.20	104	6.91	30	71 - 121
Tetrachloroethene	125.00	127.90	102	6.40	30	74 - 129
Toluene	125.00	211.40	92.4	5.92	30	80 - 121
1,2,3-Trichlorobenzene	125.00	130.35	104	2.80	30	69 - 129
1,2,4-Trichlorobenzene	125.00	133.10	106	0.637	30	69 - 130
1,1,1-Trichloroethane	125.00	120.80	96.6	6.37	30	74 - 131
1,1,2-Trichloroethane	125.00	116.35	93.1	4.78	30	80 - 119



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EPA-8260B

Matrix Spike Dup

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Matrix:	<u>Water</u>		
Batch:	<u>B[G1819</u>	Laboratory ID:	<u>B[G1819-MSD1</u>
Preparation:	<u>EPA 5030 Water MS</u>	Initial/Final:	<u>25 ml / 25 ml</u>
Source Sample Number:	<u>1719849-10RE1</u>		

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Trichloroethene	125.00	125.65	99.7	4.21	30	79 - 123
Trichlorofluoromethane	125.00	118.90	95.1	7.22	30	65 - 141
1,2,3-Trichloropropane	125.00	130.60	104	3.59	30	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	125.00	131.90	106	5.64	30	70 - 136
1,2,4-Trimethylbenzene	125.00	177.45	99.3	0.169	30	76 - 124
1,3,5-Trimethylbenzene	125.00	149.40	111	0.800	30	75 - 124
Vinyl chloride	125.00	252.60	74.6	6.90	30	58 - 137
Total Xylenes	375.00	464.60	98.3	1.40	30	79 - 121
Acetone	1600.0	1335.2	83.5	6.63	30	39 - 160
Acetonitrile	800.00	763.30	95.4	3.20	30	50 - 142
Allyl chloride	160.00	144.80	90.5	10.3	30	68 - 130
t-Amyl Methyl ether	80.000	71.850	89.8	5.68	30	68 - 128
Benzyl chloride	160.00	188.45	118	2.80	30	42 - 138
t-Butyl alcohol	4000.0	3715.4	92.9	1.28	30	68 - 129
Carbon disulfide	160.00	151.15	94.5	10.1	30	64 - 133
Chloroprene	160.00	139.10	86.9	9.68	30	65 - 135
Diisopropyl ether	80.000	73.750	92.2	7.94	30	67 - 128
Ethyl t-butyl ether	80.000	70.550	88.2	4.91	30	70 - 127
2-Hexanone	1600.0	1395.7	87.2	5.04	30	57 - 139
Methyl ethyl ketone	800.00	680.40	85.0	6.11	30	56 - 143
Methyl isobutyl ketone	800.00	713.15	89.1	6.26	30	67 - 130
Vinyl acetate	800.00	709.75	88.7	5.35	30	54 - 146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits



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LCS RECOVERY

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Matrix:	<u>Water</u>		
Batch:	<u>B[G1819</u>	Laboratory ID:	<u>B[G1819-BS1</u>
Preparation:	<u>EPA 5030 Water MS</u>	Initial/Final:	<u>25 ml / 25 ml</u>

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Benzene	25.000	24.790	99.2	79 - 120
Bromobenzene	25.000	24.860	99.4	80 - 120
Bromochloromethane	25.000	23.240	93.0	78 - 123
Bromodichloromethane	25.000	24.160	96.6	79 - 125
Bromoform	25.000	25.200	101	66 - 130
Bromomethane	25.000	18.940	75.8	53 - 141
n-Butylbenzene	25.000	25.420	102	75 - 128
sec-Butylbenzene	25.000	26.150	105	77 - 126
tert-Butylbenzene	25.000	25.310	101	78 - 124
Carbon tetrachloride	25.000	25.190	101	72 - 136
Chlorobenzene	25.000	22.980	91.9	82 - 118
Chloroethane	25.000	23.700	94.8	60 - 138
Chloroform	25.000	23.950	95.8	79 - 124
Chloromethane	25.000	18.210	72.8	50 - 139
2-Chlorotoluene	25.000	23.560	94.2	79 - 122
4-Chlorotoluene	25.000	23.460	93.8	78 - 122
Dibromochloromethane	25.000	25.070	100	74 - 126
1,2-Dibromo-3-chloropropane	25.000	23.370	93.5	62 - 128
1,2-Dibromoethane	25.000	24.060	96.2	77 - 121
Dibromomethane	25.000	24.130	96.5	79 - 123
1,2-Dichlorobenzene	25.000	22.570	90.3	80 - 119
1,3-Dichlorobenzene	25.000	23.480	93.9	80 - 119
1,4-Dichlorobenzene	25.000	23.480	93.9	79 - 118
Dichlorodifluoromethane	25.000	24.800	99.2	32 - 152



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LCS RECOVERY EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Matrix:	<u>Water</u>		
Batch:	<u>B[G1819</u>	Laboratory ID:	<u>B[G1819-BS1</u>
Preparation:	<u>EPA 5030 Water MS</u>	Initial/Final:	<u>25 ml / 25 ml</u>

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,1-Dichloroethane	25.000	24.430	97.7	77 - 125
1,2-Dichloroethane	25.000	22.360	89.4	73 - 128
1,1-Dichloroethene	25.000	25.810	103	71 - 131
cis-1,2-Dichloroethene	25.000	25.060	100	78 - 123
trans-1,2-Dichloroethene	25.000	25.780	103	75 - 124
1,2-Dichloropropane	25.000	23.770	95.1	78 - 122
1,3-Dichloropropane	25.000	22.630	90.5	80 - 119
2,2-Dichloropropane	25.000	25.550	102	60 - 139
1,1-Dichloropropene	25.000	24.280	97.1	79 - 125
cis-1,3-Dichloropropene	25.000	24.330	97.3	75 - 124
trans-1,3-Dichloropropene	25.000	25.440	102	73 - 127
Ethylbenzene	25.000	25.130	101	79 - 121
Hexachlorobutadiene	25.000	23.360	93.4	66 - 134
Isopropylbenzene	25.000	25.450	102	72 - 131
p-Isopropyltoluene	25.000	25.750	103	77 - 127
Methylene chloride	25.000	24.110	96.4	74 - 124
Methyl t-butyl ether	25.000	22.840	91.4	71 - 124
Naphthalene	25.000	24.780	99.1	61 - 128
n-Propylbenzene	25.000	23.910	95.6	76 - 126
Styrene	25.000	25.620	102	78 - 123
1,1,1,2-Tetrachloroethane	25.000	26.070	104	78 - 124
1,1,2,2-Tetrachloroethane	25.000	24.800	99.2	71 - 121
Tetrachloroethene	25.000	25.800	103	74 - 129
Toluene	25.000	25.030	100	80 - 121



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LCS RECOVERY EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Matrix:	<u>Water</u>		
Batch:	<u>B[G1819</u>	Laboratory ID:	<u>B[G1819-BS1</u>
Preparation:	<u>EPA 5030 Water MS</u>	Initial/Final:	<u>25 ml / 25 ml</u>

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,2,3-Trichlorobenzene	25.000	24.000	96.0	69 - 129
1,2,4-Trichlorobenzene	25.000	24.830	99.3	69 - 130
1,1,1-Trichloroethane	25.000	24.440	97.8	74 - 131
1,1,2-Trichloroethane	25.000	22.930	91.7	80 - 119
Trichloroethene	25.000	24.660	98.6	79 - 123
Trichlorofluoromethane	25.000	24.180	96.7	65 - 141
1,2,3-Trichloropropane	25.000	25.680	103	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	26.680	107	70 - 136
1,2,4-Trimethylbenzene	25.000	25.290	101	76 - 124
1,3,5-Trimethylbenzene	25.000	25.770	103	75 - 124
Vinyl chloride	25.000	22.960	91.8	58 - 137
Total Xylenes	75.000	74.430	99.2	79 - 121
Acetone	320.00	274.20	85.7	39 - 160
Acetonitrile	160.00	161.70	101	50 - 142
Allyl chloride	32.000	30.240	94.5	68 - 130
t-Amyl Methyl ether	16.000	14.900	93.1	68 - 128
Benzyl chloride	32.000	35.770	112	42 - 138
t-Butyl alcohol	800.00	681.97	85.2	68 - 129
Carbon disulfide	32.000	31.410	98.2	64 - 133
Chloroprene	32.000	29.970	93.7	65 - 135
Diisopropyl ether	16.000	15.820	98.9	67 - 128
Ethyl t-butyl ether	16.000	14.270	89.2	70 - 127
2-Hexanone	320.00	278.85	87.1	57 - 139
Methyl ethyl ketone	160.00	142.80	89.2	56 - 143



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LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories SDG: 17-19853
Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda
Matrix: Water
Batch: B[G1819 Laboratory ID: B[G1819-BS1
Preparation: EPA 5030 Water MS Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Methyl isobutyl ketone	160.00	143.03	89.4	67 - 130
Vinyl acetate	160.00	146.18	91.4	54 - 146

Column to be used to flag recovery and RPD values with an asterisk

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ANALYSIS BATCH (SEQUENCE) SUMMARY EPA-8260B

Laboratory: BC Laboratories SDG: 17-19853
Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda
Sequence: 1712752 Instrument: MS-V5
Matrix: Water Calibration: 1707017

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1712752-TUN1	20JUL02.D	07/20/17 08:09
Cal Standard	1712752-CAL1	20JUL03.D	07/20/17 08:32
Cal Standard	1712752-CAL2	20JUL05.D	07/20/17 09:18
Cal Standard	1712752-CAL3	20JUL06.D	07/20/17 09:42
Cal Standard	1712752-CAL4	20JUL07.D	07/20/17 10:05
Cal Standard	1712752-CAL5	20JUL08.D	07/20/17 10:28
Cal Standard	1712752-CAL6	20JUL09.D	07/20/17 10:51



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ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Sequence:	<u>1712906</u>	Instrument:	<u>MS-V5</u>
Matrix:	<u>Water</u>	Calibration:	<u>1707017</u>

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1712906-ICV1	20JUL12.D	07/20/17 12:00
Initial Cal Blank	1712906-ICB1	20JUL14.D	07/20/17 12:46
MS Tune	1712906-TUN1	24JUL01.D	07/24/17 04:17
Calibration Check	1712906-CCV1	24JUL02.D	07/24/17 04:40
Calibration Blank	1712906-CCB1	24JUL05.D	07/24/17 05:49
Blank	B[G1819-BLK1	24JUL06.D	07/24/17 06:12
LCS	B[G1819-BS1	24JUL08.D	07/24/17 06:58
Matrix Spike	B[G1819-MS1	24JUL09.D	07/24/17 07:21
Matrix Spike Dup	B[G1819-MSD1	24JUL10.D	07/24/17 07:44
MS Tune	1712906-TUN2	24JUL31.D	07/24/17 16:12
Calibration Check	1712906-CCV4	24JUL32.D	07/24/17 16:35
Calibration Blank	1712906-CCB2	24JUL35.D	07/24/17 17:44
EB16_170719	1719853-01	24JUL43.D	07/24/17 20:48
M10B-01_170719	1719853-02	24JUL44.D	07/24/17 21:11
M13-07_170719	1719853-03	24JUL45.D	07/24/17 21:35
M13-09_170719	1719853-04	24JUL46.D	07/24/17 21:58
MW530-1_170719	1719853-05	24JUL47.D	07/24/17 22:21
MW530-2_170719	1719853-06	24JUL48.D	07/24/17 22:44
MWOR-4_170719	1719853-07	24JUL49.D	07/24/17 23:07
MS Tune	1712906-TUN3	24JUL61.D	07/25/17 03:43
Calibration Check	1712906-CCV7	24JUL62.D	07/25/17 04:06
Calibration Blank	1712906-CCB3	24JUL65.D	07/25/17 05:15



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Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK EPA-8260B

Laboratory: BC Laboratories SDG: 17-19853
Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda
Lab File ID: 20JUL02.D Injection Date: 07/20/17
Instrument ID: MS-V5 Injection Time: 08:09
Sequence: 1712752 Lab Sample ID: 1712752-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	20.8	PASS
Mass 75	30 - 60% of Mass 95	40.3	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	8.2	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	53.7	PASS
Mass 175	5 - 9% of Mass 174	6.24	PASS
Mass 176	95 - 101% of Mass 174	98.1	PASS
Mass 177	5 - 9% of Mass 176	8.19	PASS



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK EPA-8260B

Laboratory: BC Laboratories SDG: 17-19853
Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda
Lab File ID: 24JUL01.D Injection Date: 07/24/17
Instrument ID: MS-V5 Injection Time: 04:17
Sequence: 1712906 Lab Sample ID: 1712906-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	17.8	PASS
Mass 75	30 - 60% of Mass 95	37.9	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	7.26	PASS
Mass 173	Less than 2% of Mass 174	1.88	PASS
Mass 174	50 - 100% of Mass 95	70.1	PASS
Mass 175	5 - 9% of Mass 174	6.99	PASS
Mass 176	95 - 101% of Mass 174	97	PASS
Mass 177	5 - 9% of Mass 176	7.22	PASS



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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory: BC Laboratories SDG: 17-19853
Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda
Lab File ID: 24JUL31.D Injection Date: 07/24/17
Instrument ID: MS-V5 Injection Time: 16:12
Sequence: 1712906 Lab Sample ID: 1712906-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	15.5	PASS
Mass 75	30 - 60% of Mass 95	36.6	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	7.22	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	77.7	PASS
Mass 175	5 - 9% of Mass 174	7.3	PASS
Mass 176	95 - 101% of Mass 174	95.5	PASS
Mass 177	5 - 9% of Mass 176	6.16	PASS



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Project: Alameda
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Project Manager: Kevin Olness

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK EPA-8260B

Laboratory: BC Laboratories SDG: 17-19853
Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda
Lab File ID: 24JUL61.D Injection Date: 07/25/17
Instrument ID: MS-V5 Injection Time: 03:43
Sequence: 1712906 Lab Sample ID: 1712906-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	21.9	PASS
Mass 75	30 - 60% of Mass 95	37.1	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	7.3	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	78.9	PASS
Mass 175	5 - 9% of Mass 174	7.65	PASS
Mass 176	95 - 101% of Mass 174	99.4	PASS
Mass 177	5 - 9% of Mass 176	5.17	PASS



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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Instrument ID:	<u>MS-V5</u>	Calibration:	<u>1707017</u>
Lab File ID:	<u>20JUL12.D</u>	Calibration Date:	<u>07/18/17 00:46</u>
Sequence:	<u>1712906</u>	Injection Date:	<u>07/20/17</u>
Lab Sample ID:	<u>1712906-ICV1</u>	Injection Time:	<u>12:00</u>

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	25.000	24.890	2.047739	2.039122		-0.4	20
Bromobenzene	A	25.000	25.230	1.167814	1.17861		0.9	20
Bromochloromethane	A	25.000	24.530	0.1664346	0.1632807		-1.9	20
Bromodichloromethane	A	25.000	25.280	0.2878825	0.2911282		1.1	20
Bromoform	A	25.000	26.740	0.245463	0.2625679	0.1	7.0	20
Bromomethane	A	25.000	25.110	0.406522	0.4083079		0.4	20
n-Butylbenzene	A	25.000	26.100	4.798501	5.009032		4.4	20
sec-Butylbenzene	A	25.000	26.640	6.314385	6.729672		6.6	20
tert-Butylbenzene	A	25.000	25.400	4.660614	4.735605		1.6	20
Carbon tetrachloride	A	25.000	25.480	0.449341	0.457984		1.9	20
Chlorobenzene	A	25.000	23.360	3.316137	3.09848	0.3	-6.6	20
Chloroethane	A	25.000	24.110	0.5145747	0.4963064		-3.6	20
Chloroform	A	25.000	24.930	0.7571101	0.7548645		-0.3	20
Chloromethane	A	25.000	21.800	0.9407238	0.8204025	0.1	-12.8	20
2-Chlorotoluene	A	25.000	24.160	4.677137	4.5199		-3.4	20
4-Chlorotoluene	A	25.000	24.370	4.223867	4.117292		-2.5	20
Dibromochloromethane	A	25.000	26.550	0.1504286	0.1597323		6.2	20
1,2-Dibromo-3-chloropropane	A	25.000	28.170	7.330085E-02	0.0826084		12.7	20
1,2-Dibromoethane	A	25.000	26.200	0.1293784	0.1355752		4.8	20
Dibromomethane	A	25.000	26.740	9.576412E-02	0.1024155		6.9	20
1,2-Dichlorobenzene	A	25.000	24.020	2.15653	2.071804		-3.9	20
1,3-Dichlorobenzene	A	25.000	24.340	2.49992	2.433885		-2.6	20
1,4-Dichlorobenzene	A	25.000	24.380	2.443238	2.382478		-2.5	20



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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Instrument ID:	<u>MS-V5</u>	Calibration:	<u>1707017</u>
Lab File ID:	<u>20JUL12.D</u>	Calibration Date:	<u>07/18/17 00:46</u>
Sequence:	<u>1712906</u>	Injection Date:	<u>07/20/17</u>
Lab Sample ID:	<u>1712906-ICV1</u>	Injection Time:	<u>12:00</u>

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	25.000	26.330	0.4975939	0.5240701		5.3	20
1,1-Dichloroethane	A	25.000	25.490	1.070106	1.090882	0.1	1.9	20
1,2-Dichloroethane	A	25.000	24.460	0.4067953	0.3979766		-2.2	20
1,1-Dichloroethene	A	25.000	25.940	0.8069668	0.8371807		3.7	20
cis-1,2-Dichloroethene	A	25.000	25.330	0.5222008	0.5290657		1.3	20
trans-1,2-Dichloroethene	A	25.000	26.540	0.5009588	0.5318602		6.2	20
1,2-Dichloropropane	A	25.000	24.220	0.379403	0.3675628		-3.1	20
1,3-Dichloropropane	A	25.000	23.670	0.2528371	0.2393712		-5.3	20
2,2-Dichloropropane	A	25.000	25.930	0.602219	0.6245229		3.7	20
1,1-Dichloropropene	A	25.000	24.420	0.6845791	0.6686965		-2.3	20
cis-1,3-Dichloropropene	A	25.000	26.090	0.3594295	0.375053		4.3	20
trans-1,3-Dichloropropene	A	25.000	26.130	0.2346113	0.2452383		4.5	20
Ethylbenzene	A	25.000	25.810	1.948304	2.0114		3.2	20
Hexachlorobutadiene	A	25.000	25.210	0.86466	0.872002		0.8	20
Isopropylbenzene	A	25.000	26.250	5.700983	5.985719		5.0	20
p-Isopropyltoluene	A	25.000	26.690	5.149437	5.497681		6.8	20
Methylene chloride	A	25.000	24.890	0.4314876	0.4296029		-0.4	20
Methyl t-butyl ether	A	25.000	25.570	0.603852	0.6175321		2.3	20
Naphthalene	A	25.000	26.500	1.569043	1.6633		6.0	20
n-Propylbenzene	A	25.000	24.270	7.403456	7.187232		-2.9	20
Styrene	A	25.000	26.450	3.356924	3.551577		5.8	20
1,1,1,2-Tetrachloroethane	A	25.000	26.860	0.8160317	0.8766748		7.4	20
1,1,2,2-Tetrachloroethane	A	25.000	25.920	0.5437402	0.5638488	0.3	3.7	20



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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Instrument ID:	<u>MS-V5</u>	Calibration:	<u>1707017</u>
Lab File ID:	<u>20JUL12.D</u>	Calibration Date:	<u>07/18/17 00:46</u>
Sequence:	<u>1712906</u>	Injection Date:	<u>07/20/17</u>
Lab Sample ID:	<u>1712906-ICV1</u>	Injection Time:	<u>12:00</u>

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloroethene	A	25.000	25.470	0.3290699	0.3353122		1.9	20
Toluene	A	25.000	24.960	0.8662846	0.8648716		-0.2	20
1,2,3-Trichlorobenzene	A	25.000	26.670	1.048181	1.118245		6.7	20
1,2,4-Trichlorobenzene	A	25.000	27.060	1.248966	1.351767		8.2	20
1,1,1-Trichloroethane	A	25.000	25.790	0.6553918	0.6760837		3.2	20
1,1,2-Trichloroethane	A	25.000	25.220	0.1556498	0.1570429		0.9	20
Trichloroethene	A	25.000	25.390	0.3434012	0.3487116		1.5	20
Trichlorofluoromethane	A	25.000	25.570	0.6158835	0.6299322		2.3	20
1,2,3-Trichloropropane	A	25.000	25.960	0.1156016	0.1200231		3.8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	26.470	0.4228091	0.4476203		5.9	20
1,2,4-Trimethylbenzene	A	25.000	26.050	4.672745	4.868982		4.2	20
1,3,5-Trimethylbenzene	A	25.000	27.000	4.717828	5.09494		8.0	20
Vinyl chloride	A	25.000	24.480	0.7494116	0.7337211		-2.1	20
Total Xylenes	A	75.000	76.780	2.323025	2.378206		2.4	20
Total Trihalomethanes	A	100.00	103.50	7387.704	7187.65		-2.7	20
p- & m-Xylenes	A	50.000	51.130	2.383338	2.437307		2.3	20
o-Xylene	A	25.000	25.650	2.2024	2.260003		2.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q



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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Instrument ID:	<u>MS-V5</u>	Calibration:	<u>1707017</u>
Lab File ID:	<u>24JUL02.D</u>	Calibration Date:	<u>07/18/17 00:46</u>
Sequence:	<u>1712906</u>	Injection Date:	<u>07/24/17</u>
Lab Sample ID:	<u>1712906-CCV1</u>	Injection Time:	<u>04:40</u>

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	25.000	25.970	2.047739	2.126835		3.9	20
Bromobenzene	A	25.000	24.630	1.167814	1.150524		-1.5	20
Bromoform	A	25.000	27.700	0.245463	0.2719541	0.1	10.8	20
Bromochloromethane	A	25.000	25.410	0.1664346	0.1691511		1.6	20
Bromodichloromethane	A	25.000	24.690	0.2878825	0.2843442		-1.2	20
Bromomethane	A	25.000	17.670	0.406522	0.2872801		-29.3	20 *
n-Butylbenzene	A	25.000	27.190	4.798501	5.219182		8.8	20
sec-Butylbenzene	A	25.000	27.680	6.314385	6.991306		10.7	20
Chlorobenzene	A	25.000	25.370	3.316137	3.365584	0.3	1.5	20
Chloroethane	A	25.000	25.380	0.5145747	0.5223763		1.5	20
Chloroform	A	25.000	24.480	0.7571101	0.7414211		-2.1	20
Chloromethane	A	25.000	19.530	0.9407238	0.734911	0.1	-21.9	20 *
2-Chlorotoluene	A	25.000	26.180	4.677137	4.897626		4.7	20
4-Chlorotoluene	A	25.000	26.430	4.223867	4.465186		5.7	20
Dibromochloromethane	A	25.000	25.900	0.1504286	0.1558376		3.6	20
1,2-Dibromo-3-chloropropane	A	25.000	25.240	7.330085E-02	7.401386E-02		1.0	20
1,2-Dibromoethane	A	25.000	23.750	0.1293784	0.1228999		-5.0	20
Dibromomethane	A	25.000	24.700	9.576412E-02	9.463295E-02		-1.2	20
1,2-Dichlorobenzene	A	25.000	25.200	2.15653	2.173623		0.8	20
1,3-Dichlorobenzene	A	25.000	26.480	2.49992	2.647705		5.9	20
1,4-Dichlorobenzene	A	25.000	26.260	2.443238	2.566531		5.0	20



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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Instrument ID:	<u>MS-V5</u>	Calibration:	<u>1707017</u>
Lab File ID:	<u>24JUL02.D</u>	Calibration Date:	<u>07/18/17 00:46</u>
Sequence:	<u>1712906</u>	Injection Date:	<u>07/24/17</u>
Lab Sample ID:	<u>1712906-CCV1</u>	Injection Time:	<u>04:40</u>

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	25.000	26.030	0.4975939	0.5181206		4.1	20
1,1-Dichloroethane	A	25.000	25.190	1.070106	1.078358	0.1	0.8	20
1,2-Dichloroethane	A	25.000	23.260	0.4067953	0.378439		-7.0	20
1,1-Dichloroethene	A	25.000	25.420	0.8069668	0.8204097		1.7	20
cis-1,2-Dichloroethene	A	25.000	24.980	0.5222008	0.5218174		-0.07	20
trans-1,2-Dichloroethene	A	25.000	25.400	0.5009588	0.5088745		1.6	20
1,2-Dichloropropane	A	25.000	25.000	0.379403	0.3793931		-0.003	20
1,3-Dichloropropane	A	25.000	23.840	0.2528371	0.2410957		-4.6	20
2,2-Dichloropropane	A	25.000	27.210	0.602219	0.6554012		8.8	20
1,1-Dichloropropene	A	25.000	26.010	0.6845791	0.712205		4.0	20
cis-1,3-Dichloropropene	A	25.000	26.550	0.3594295	0.3817638		6.2	20
trans-1,3-Dichloropropene	A	25.000	26.360	0.2346113	0.2473785		5.4	20
Ethylbenzene	A	25.000	26.700	1.948304	2.080922		6.8	20
Hexachlorobutadiene	A	25.000	24.560	0.86466	0.8494232		-1.8	20
Isopropylbenzene	A	25.000	26.930	5.700983	6.140852		7.7	20
p-Isopropyltoluene	A	25.000	27.070	5.149437	5.57653		8.3	20
Methylene chloride	A	25.000	24.420	0.4314876	0.4214144		-2.3	20
Methyl t-butyl ether	A	25.000	23.680	0.603852	0.5718744		-5.3	20
Naphthalene	A	25.000	25.480	1.569043	1.599153		1.9	20
n-Propylbenzene	A	25.000	25.730	7.403456	7.619435		2.9	20
Styrene	A	25.000	26.600	3.356924	3.572316		6.4	20
1,1,1,2-Tetrachloroethane	A	25.000	27.630	0.8160317	0.9017506		10.5	20
1,1,2,2-Tetrachloroethane	A	25.000	26.010	0.5437402	0.5656263	0.3	4.0	20



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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Instrument ID:	<u>MS-V5</u>	Calibration:	<u>1707017</u>
Lab File ID:	<u>24JUL02.D</u>	Calibration Date:	<u>07/18/17 00:46</u>
Sequence:	<u>1712906</u>	Injection Date:	<u>07/24/17</u>
Lab Sample ID:	<u>1712906-CCV1</u>	Injection Time:	<u>04:40</u>

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloroethene	A	25.000	25.100	0.3290699	0.330442		0.4	20
Toluene	A	25.000	25.560	0.8662846	0.8856262		2.2	20
1,2,3-Trichlorobenzene	A	25.000	23.160	1.048181	0.971182		-7.3	20
1,2,4-Trichlorobenzene	A	25.000	24.810	1.248966	1.239332		-0.8	20
1,1,1-Trichloroethane	A	25.000	25.460	0.6553918	0.6674272		1.8	20
1,1,2-Trichloroethane	A	25.000	23.630	0.1556498	0.1471228		-5.5	20
Trichloroethene	A	25.000	25.300	0.3434012	0.3474968		1.2	20
Trichlorofluoromethane	A	25.000	25.580	0.6158835	0.6300807		2.3	20
1,2,3-Trichloropropane	A	25.000	24.360	0.1156016	0.1126412		-2.6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	27.910	0.4228091	0.4720116		11.6	20
1,2,4-Trimethylbenzene	A	25.000	26.150	4.672745	4.888024		4.6	20
1,3,5-Trimethylbenzene	A	25.000	27.190	4.717828	5.131347		8.8	20
Vinyl chloride	A	25.000	24.550	0.7494116	0.7359807		-1.8	20
Total Xylenes	A	75.000	77.690	2.323025	2.406652		3.6	20
Total Trihalomethanes	A	100.00	102.77	7387.704	7360.12		-0.4	20
p- & m-Xylenes	A	50.000	51.890	2.383338	2.473598		3.8	20
o-Xylene	A	25.000	25.800	2.2024	2.272759		3.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Instrument ID:	<u>MS-V5</u>	Calibration:	<u>1707017</u>
Lab File ID:	<u>24JUL32.D</u>	Calibration Date:	<u>07/18/17 00:46</u>
Sequence:	<u>1712906</u>	Injection Date:	<u>07/24/17</u>
Lab Sample ID:	<u>1712906-CCV4</u>	Injection Time:	<u>16:35</u>

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	25.000	23.690	2.047739	1.940205		-5.3	20
Bromobenzene	A	25.000	23.860	1.167814	1.11472		-4.5	20
Bromochloromethane	A	25.000	23.580	0.1664346	0.1569708		-5.7	20
Bromodichloromethane	A	25.000	24.160	0.2878825	0.2782038		-3.4	20
Bromoform	A	25.000	25.170	0.245463	0.2471667	0.1	0.7	20
Bromomethane	A	25.000	17.290	0.406522	0.2811433		-30.8	20 *
n-Butylbenzene	A	25.000	24.120	4.798501	4.629732		-3.5	20
sec-Butylbenzene	A	25.000	24.990	6.314385	6.312212		-0.03	20
tert-Butylbenzene	A	25.000	26.660	4.660614	4.970042		6.6	20
Carbon tetrachloride	A	25.000	23.240	0.449341	0.417719		-7.0	20
Chlorobenzene	A	25.000	23.850	3.316137	3.16389	0.3	-4.6	20
Chloroethane	A	25.000	22.730	0.5145747	0.4679467		-9.1	20
Chloroform	A	25.000	22.850	0.7571101	0.6919249		-8.6	20
Chloromethane	A	25.000	17.510	0.9407238	0.6588048	0.1	-30.0	20 *
2-Chlorotoluene	A	25.000	24.630	4.677137	4.607348		-1.5	20
4-Chlorotoluene	A	25.000	24.240	4.223867	4.095236		-3.0	20
Dibromochloromethane	A	25.000	25.270	0.1504286	0.1520376		1.1	20
1,2-Dibromo-3-chloropropane	A	25.000	22.720	7.330085E-02	6.660426E-02		-9.1	20
1,2-Dibromoethane	A	25.000	23.450	0.1293784	0.1213576		-6.2	20
Dibromomethane	A	25.000	23.980	9.576412E-02	9.184357E-02		-4.1	20
1,2-Dichlorobenzene	A	25.000	24.110	2.15653	2.07952		-3.6	20
1,3-Dichlorobenzene	A	25.000	24.870	2.49992	2.487183		-0.5	20
1,4-Dichlorobenzene	A	25.000	24.920	2.443238	2.435839		-0.3	20



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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Instrument ID:	<u>MS-V5</u>	Calibration:	<u>1707017</u>
Lab File ID:	<u>24JUL32.D</u>	Calibration Date:	<u>07/18/17 00:46</u>
Sequence:	<u>1712906</u>	Injection Date:	<u>07/24/17</u>
Lab Sample ID:	<u>1712906-CCV4</u>	Injection Time:	<u>16:35</u>

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	25.000	22.830	0.4975939	0.4543655		-8.7	20
1,1-Dichloroethane	A	25.000	23.070	1.070106	0.9874856	0.1	-7.7	20
1,2-Dichloroethane	A	25.000	22.560	0.4067953	0.3671491		-9.7	20
1,1-Dichloroethene	A	25.000	23.410	0.8069668	0.7555659		-6.4	20
cis-1,2-Dichloroethene	A	25.000	23.220	0.5222008	0.485111		-7.1	20
trans-1,2-Dichloroethene	A	25.000	23.400	0.5009588	0.4689144		-6.4	20
1,2-Dichloropropane	A	25.000	23.800	0.379403	0.3611481		-4.8	20
1,3-Dichloropropane	A	25.000	23.640	0.2528371	0.2390377		-5.5	20
2,2-Dichloropropane	A	25.000	23.050	0.602219	0.5551934		-7.8	20
1,1-Dichloropropene	A	25.000	23.720	0.6845791	0.6495192		-5.1	20
cis-1,3-Dichloropropene	A	25.000	24.710	0.3594295	0.3552309		-1.2	20
trans-1,3-Dichloropropene	A	25.000	25.870	0.2346113	0.2427994		3.5	20
Ethylbenzene	A	25.000	24.770	1.948304	1.930057		-0.9	20
Hexachlorobutadiene	A	25.000	23.570	0.86466	0.8153008		-5.7	20
Isopropylbenzene	A	25.000	24.390	5.700983	5.560961		-2.5	20
p-Isopropyltoluene	A	25.000	24.870	5.149437	5.122322		-0.5	20
Methylene chloride	A	25.000	23.450	0.4314876	0.4047268		-6.2	20
Methyl t-butyl ether	A	25.000	23.320	0.603852	0.5631956		-6.7	20
Naphthalene	A	25.000	23.630	1.569043	1.482749		-5.5	20
n-Propylbenzene	A	25.000	23.640	7.403456	7.00167		-5.4	20
Styrene	A	25.000	25.170	3.356924	3.380034		0.7	20
1,1,1,2-Tetrachloroethane	A	25.000	25.950	0.8160317	0.8471436		3.8	20
1,1,2,2-Tetrachloroethane	A	25.000	26.140	0.5437402	0.5685239	0.3	4.6	20



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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Instrument ID:	<u>MS-V5</u>	Calibration:	<u>1707017</u>
Lab File ID:	<u>24JUL32.D</u>	Calibration Date:	<u>07/18/17 00:46</u>
Sequence:	<u>1712906</u>	Injection Date:	<u>07/24/17</u>
Lab Sample ID:	<u>1712906-CCV4</u>	Injection Time:	<u>16:35</u>

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloroethene	A	25.000	24.000	0.3290699	0.3158923		-4.0	20
Toluene	A	25.000	24.260	0.8662846	0.840629		-3.0	20
1,2,3-Trichlorobenzene	A	25.000	22.680	1.048181	0.9508072		-9.3	20
1,2,4-Trichlorobenzene	A	25.000	23.710	1.248966	1.184504		-5.2	20
1,1,1-Trichloroethane	A	25.000	22.840	0.6553918	0.5988563		-8.6	20
1,1,2-Trichloroethane	A	25.000	23.700	0.1556498	0.147586		-5.2	20
Trichloroethene	A	25.000	24.570	0.3434012	0.3374391		-1.7	20
Trichlorofluoromethane	A	25.000	23.560	0.6158835	0.5805118		-5.7	20
1,2,3-Trichloropropane	A	25.000	25.440	0.1156016	0.1176513		1.8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	24.680	0.4228091	0.4173627		-1.3	20
1,2,4-Trimethylbenzene	A	25.000	24.280	4.672745	4.538481		-2.9	20
1,3,5-Trimethylbenzene	A	25.000	25.170	4.717828	4.750297		0.7	20
Vinyl chloride	A	25.000	21.600	0.7494116	0.6474605		-13.6	20
Total Xylenes	A	75.000	72.620	2.323025	2.24804		-3.2	20
Total Trihalomethanes	A	100.00	97.450	7387.704	7117.32		-3.7	20
p- & m-Xylenes	A	50.000	47.850	2.383338	2.28093		-4.3	20
o-Xylene	A	25.000	24.770	2.2024	2.18226		-0.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q



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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Instrument ID:	<u>MS-V5</u>	Calibration:	<u>1707017</u>
Lab File ID:	<u>24JUL62.D</u>	Calibration Date:	<u>07/18/17 00:46</u>
Sequence:	<u>1712906</u>	Injection Date:	<u>07/25/17</u>
Lab Sample ID:	<u>1712906-CCV7</u>	Injection Time:	<u>04:06</u>

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	25.000	25.020	2.047739	2.049292		0.08	20
Bromobenzene	A	25.000	24.940	1.167814	1.164918		-0.2	20
Bromochloromethane	A	25.000	24.470	0.1664346	0.1628766		-2.1	20
Bromodichloromethane	A	25.000	25.660	0.2878825	0.2954387		2.6	20
Bromoform	A	25.000	25.660	0.245463	0.2519355	0.1	2.6	20
Bromomethane	A	25.000	10.950	0.406522	0.1780058		-56.2	20 *
n-Butylbenzene	A	25.000	24.690	4.798501	4.739087		-1.2	20
sec-Butylbenzene	A	25.000	26.120	6.314385	6.597652		4.5	20
tert-Butylbenzene	A	25.000	24.980	4.660614	4.657492		-0.07	20
Carbon tetrachloride	A	25.000	25.000	0.449341	0.4492854		-0.01	20
Chlorobenzene	A	25.000	24.480	3.316137	3.246955	0.3	-2.1	20
Chloroethane	A	25.000	23.930	0.5145747	0.4925845		-4.3	20
Chloroform	A	25.000	24.340	0.7571101	0.7371863		-2.6	20
Chloromethane	A	25.000	18.420	0.9407238	0.6930097	0.1	-26.3	20 *
2-Chlorotoluene	A	25.000	25.400	4.677137	4.752464		1.6	20
4-Chlorotoluene	A	25.000	25.190	4.223867	4.255485		0.7	20
Dibromochloromethane	A	25.000	26.410	0.1504286	0.1589231		5.6	20
1,2-Dibromo-3-chloropropane	A	25.000	24.330	7.330085E-02	7.133235E-02		-2.7	20
1,2-Dibromoethane	A	25.000	24.520	0.1293784	0.1268754		-1.9	20
Dibromomethane	A	25.000	26.380	9.576412E-02	0.1010519		5.5	20
1,2-Dichlorobenzene	A	25.000	25.400	2.15653	2.191241		1.6	20
1,3-Dichlorobenzene	A	25.000	25.610	2.49992	2.56091		2.4	20
1,4-Dichlorobenzene	A	25.000	25.450	2.443238	2.487359		1.8	20



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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Instrument ID:	<u>MS-V5</u>	Calibration:	<u>1707017</u>
Lab File ID:	<u>24JUL62.D</u>	Calibration Date:	<u>07/18/17 00:46</u>
Sequence:	<u>1712906</u>	Injection Date:	<u>07/25/17</u>
Lab Sample ID:	<u>1712906-CCV7</u>	Injection Time:	<u>04:06</u>

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	25.000	25.150	0.4975939	0.500657		0.6	20
1,1-Dichloroethane	A	25.000	24.670	1.070106	1.055806	0.1	-1.3	20
1,2-Dichloroethane	A	25.000	25.130	0.4067953	0.4089365		0.5	20
1,1-Dichloroethene	A	25.000	25.330	0.8069668	0.8176507		1.3	20
cis-1,2-Dichloroethene	A	25.000	24.480	0.5222008	0.5113236		-2.1	20
trans-1,2-Dichloroethene	A	25.000	25.000	0.5009588	0.5009337		-0.005	20
1,2-Dichloropropane	A	25.000	25.440	0.379403	0.3860243		1.7	20
1,3-Dichloropropane	A	25.000	24.420	0.2528371	0.2469534		-2.3	20
2,2-Dichloropropane	A	25.000	19.960	0.602219	0.4807909		-20.2	20 *
1,1-Dichloropropene	A	25.000	24.940	0.6845791	0.6829077		-0.2	20
cis-1,3-Dichloropropene	A	25.000	25.010	0.3594295	0.3595928		0.05	20
trans-1,3-Dichloropropene	A	25.000	25.820	0.2346113	0.2422958		3.3	20
Ethylbenzene	A	25.000	25.520	1.948304	1.988653		2.1	20
Hexachlorobutadiene	A	25.000	24.340	0.86466	0.8417563		-2.6	20
Isopropylbenzene	A	25.000	26.100	5.700983	5.952587		4.4	20
p-Isopropyltoluene	A	25.000	25.330	5.149437	5.217681		1.3	20
Methylene chloride	A	25.000	24.140	0.4314876	0.416594		-3.5	20
Methyl t-butyl ether	A	25.000	24.180	0.603852	0.58416		-3.3	20
Naphthalene	A	25.000	24.330	1.569043	1.526689		-2.7	20
n-Propylbenzene	A	25.000	24.300	7.403456	7.195221		-2.8	20
Styrene	A	25.000	25.560	3.356924	3.432008		2.2	20
1,1,1,2-Tetrachloroethane	A	25.000	26.880	0.8160317	0.8772632		7.5	20
1,1,2,2-Tetrachloroethane	A	25.000	22.310	0.5437402	0.4851785	0.3	-10.8	20



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CONTINUING CALIBRATION CHECK

EPA-8260B

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Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Instrument ID:	<u>MS-V5</u>	Calibration:	<u>1707017</u>
Lab File ID:	<u>24JUL62.D</u>	Calibration Date:	<u>07/18/17 00:46</u>
Sequence:	<u>1712906</u>	Injection Date:	<u>07/25/17</u>
Lab Sample ID:	<u>1712906-CCV7</u>	Injection Time:	<u>04:06</u>

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloroethene	A	25.000	27.270	0.3290699	0.3589938		9.1	20
Toluene	A	25.000	25.800	0.8662846	0.8938978		3.2	20
1,2,3-Trichlorobenzene	A	25.000	24.190	1.048181	1.014232		-3.2	20
1,2,4-Trichlorobenzene	A	25.000	23.830	1.248966	1.190643		-4.7	20
1,1,1-Trichloroethane	A	25.000	25.130	0.6553918	0.6589214		0.5	20
1,1,2-Trichloroethane	A	25.000	24.540	0.1556498	0.1527893		-1.8	20
Trichloroethene	A	25.000	27.480	0.3434012	0.3774285		9.9	20
Trichlorofluoromethane	A	25.000	26.250	0.6158835	0.6466811		5.0	20
1,2,3-Trichloropropane	A	25.000	26.300	0.1156016	0.1216188		5.2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	26.160	0.4228091	0.4423966		4.6	20
1,2,4-Trimethylbenzene	A	25.000	25.250	4.672745	4.720087		1.0	20
1,3,5-Trimethylbenzene	A	25.000	25.880	4.717828	4.883826		3.5	20
Vinyl chloride	A	25.000	23.730	0.7494116	0.7114132		-5.1	20
Total Xylenes	A	75.000	75.300	2.323025	2.331986		0.4	20
Total Trihalomethanes	A	100.00	102.07	7387.704	6720.99		-9.0	20
p- & m-Xylenes	A	50.000	49.980	2.383338	2.382529		-0.03	20
o-Xylene	A	25.000	25.320	2.2024	2.230901		1.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q



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Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

SURROGATE STANDARD RECOVERY AND RT SUMMARY EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Sequence:	<u>1712752</u>	Instrument:	<u>MS-V5</u>
Matrix:	<u>Water</u>	Calibration:	<u>1707017</u>

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Cal Standard (1712752-CAL1) Lab File ID: 20JUL03.D Analyzed: 07/20/17 08:32								
1,2-Dichloroethane-d4 (Surrogate)	10.000	101		6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.6		8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.8		10.35	10.34333	0.0067	+/-1.0	
Cal Standard (1712752-CAL2) Lab File ID: 20JUL05.D Analyzed: 07/20/17 09:18								
1,2-Dichloroethane-d4 (Surrogate)	10.000	101		6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.8		8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101		10.34	10.34333	-0.0033	+/-1.0	
Cal Standard (1712752-CAL3) Lab File ID: 20JUL06.D Analyzed: 07/20/17 09:42								
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.6		6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.9		8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101		10.34	10.34333	-0.0033	+/-1.0	
Cal Standard (1712752-CAL4) Lab File ID: 20JUL07.D Analyzed: 07/20/17 10:05								
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.9		6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	101		8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	103		10.34	10.34333	-0.0033	+/-1.0	
Cal Standard (1712752-CAL5) Lab File ID: 20JUL08.D Analyzed: 07/20/17 10:28								
1,2-Dichloroethane-d4 (Surrogate)	10.000	94.0		6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100		8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101		10.34	10.34333	-0.0033	+/-1.0	
Cal Standard (1712752-CAL6) Lab File ID: 20JUL09.D Analyzed: 07/20/17 10:51								
1,2-Dichloroethane-d4 (Surrogate)	10.000	92.4		6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100		8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	102		10.35	10.34333	0.0067	+/-1.0	



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM

Project: Alameda

Project Number: 5023146096

Project Manager: Kevin Olness

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Sequence:	<u>1712906</u>	Instrument:	<u>MS-V5</u>
Matrix:	<u>Water</u>	Calibration:	<u>1707017</u>

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (1712906-ICV1)								
1,2-Dichloroethane-d4 (Surrogate)	10.000	100	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.4	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	104	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Initial Cal Blank (1712906-ICB1)								
1,2-Dichloroethane-d4 (Surrogate)	10.000	106	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.6	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.2	85 - 114	10.35	10.34333	0.0067	+/-1.0	
Calibration Check (1712906-CCV1)								
1,2-Dichloroethane-d4 (Surrogate)	10.000	97.1	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.5	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.9	85 - 114	10.35	10.34333	0.0067	+/-1.0	
Calibration Blank (1712906-CCB1)								
1,2-Dichloroethane-d4 (Surrogate)	10.000	91.0	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.9	89 - 112	8.61	8.6	0.0100	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	97.4	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Blank (B G1819-BLK1)								
1,2-Dichloroethane-d4 (Surrogate)	10.000	96.7	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.8	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.3	85 - 114	10.35	10.34333	0.0067	+/-1.0	
LCS (B G1819-BS1)								
1,2-Dichloroethane-d4 (Surrogate)	10.000	87.0	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.7	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	94.4	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Matrix Spike (B G1819-MS1)								
1,2-Dichloroethane-d4 (Surrogate)	10.000	91.2	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.9	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.4	85 - 114	10.35	10.34333	0.0067	+/-1.0	



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

SURROGATE STANDARD RECOVERY AND RT SUMMARY EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Sequence:	<u>1712906</u>	Instrument:	<u>MS-V5</u>
Matrix:	<u>Water</u>	Calibration:	<u>1707017</u>

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (B G1819-MSD1)					Lab File ID: 24JUL10.D	Analyzed: 07/24/17 07:44		
1,2-Dichloroethane-d4 (Surrogate)	10.000	85.6	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.9	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.7	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Calibration Check (1712906-CCV4)					Lab File ID: 24JUL32.D	Analyzed: 07/24/17 16:35		
1,2-Dichloroethane-d4 (Surrogate)	10.000	95.5	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.0	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.7	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Calibration Blank (1712906-CCB2)					Lab File ID: 24JUL35.D	Analyzed: 07/24/17 17:44		
1,2-Dichloroethane-d4 (Surrogate)	10.000	89.8	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.1	89 - 112	8.61	8.6	0.0100	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
EB16_170719 (1719853-01)					Lab File ID: 24JUL43.D	Analyzed: 07/24/17 20:48		
1,2-Dichloroethane-d4 (Surrogate)	10.000	93.0	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.4	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	95.5	85 - 114	10.35	10.34333	0.0067	+/-1.0	
M10B-01_170719 (1719853-02)					Lab File ID: 24JUL44.D	Analyzed: 07/24/17 21:11		
1,2-Dichloroethane-d4 (Surrogate)	10.000	96.8	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.6	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.8	85 - 114	10.35	10.34333	0.0067	+/-1.0	
M13-07_170719 (1719853-03)					Lab File ID: 24JUL45.D	Analyzed: 07/24/17 21:35		
1,2-Dichloroethane-d4 (Surrogate)	10.000	95.7	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.5	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	100	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
M13-09_170719 (1719853-04)					Lab File ID: 24JUL46.D	Analyzed: 07/24/17 21:58		
1,2-Dichloroethane-d4 (Surrogate)	10.000	97.6	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.1	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	95.6	85 - 114	10.34	10.34333	-0.0033	+/-1.0	



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

SURROGATE STANDARD RECOVERY AND RT SUMMARY EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Sequence:	<u>1712906</u>	Instrument:	<u>MS-V5</u>
Matrix:	<u>Water</u>	Calibration:	<u>1707017</u>

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
MW530-1_170719 (1719853-05)					Lab File ID: 24JUL47.D	Analyzed: 07/24/17 22:21		
1,2-Dichloroethane-d4 (Surrogate)	10.000	101	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.5	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101	85 - 114	10.35	10.34333	0.0067	+/-1.0	
MW530-2_170719 (1719853-06)					Lab File ID: 24JUL48.D	Analyzed: 07/24/17 22:44		
1,2-Dichloroethane-d4 (Surrogate)	10.000	97.7	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.0	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.5	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
MWOR-4_170719 (1719853-07)					Lab File ID: 24JUL49.D	Analyzed: 07/24/17 23:07		
1,2-Dichloroethane-d4 (Surrogate)	10.000	95.7	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.8	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.8	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Calibration Check (1712906-CCV7)					Lab File ID: 24JUL62.D	Analyzed: 07/25/17 04:06		
1,2-Dichloroethane-d4 (Surrogate)	10.000	96.1	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.5	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	95.0	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Calibration Blank (1712906-CCB3)					Lab File ID: 24JUL65.D	Analyzed: 07/25/17 05:15		
1,2-Dichloroethane-d4 (Surrogate)	10.000	92.3	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.0	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.1	85 - 114	10.34	10.34333	-0.0033	+/-1.0	



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Project: Alameda

Project Number: 5023146096

Project Manager: Kevin Olness

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories SDG: 17-19853

Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda

Sequence: 1712752 Instrument: MS-V5

Matrix: Water Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (1712752-CAL1)			Lab File ID: 20JUL03.D			Analyzed: 07/20/17 08:32			
Pentafluorobenzene (IS)	217011	6.57	187618	6.58	116	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	90897	9.61	72968	9.61	125	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	336200	7.38	281102	7.38	120	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CAL2)			Lab File ID: 20JUL05.D			Analyzed: 07/20/17 09:18			
Pentafluorobenzene (IS)	219386	6.58	187618	6.58	117	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	89283	9.61	72968	9.61	122	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	341653	7.38	281102	7.38	122	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CAL3)			Lab File ID: 20JUL06.D			Analyzed: 07/20/17 09:42			
Pentafluorobenzene (IS)	160100	6.58	187618	6.58	85	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	66101	9.62	72968	9.61	91	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	249503	7.38	281102	7.38	89	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CAL4)			Lab File ID: 20JUL07.D			Analyzed: 07/20/17 10:05			
Pentafluorobenzene (IS)	187618	6.58	187618	6.58	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	72968	9.61	72968	9.61	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	281102	7.38	281102	7.38	100	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CAL5)			Lab File ID: 20JUL08.D			Analyzed: 07/20/17 10:28			
Pentafluorobenzene (IS)	185328	6.58	187618	6.58	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	75612	9.62	72968	9.61	104	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	283937	7.38	281102	7.38	101	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CAL6)			Lab File ID: 20JUL09.D			Analyzed: 07/20/17 10:51			
Pentafluorobenzene (IS)	190235	6.57	187618	6.58	101	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	79131	9.61	72968	9.61	108	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	291095	7.38	281102	7.38	104	50 - 200	0.0000	+/-0.50	



AMEC Environmental & Infrastructure-
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INTERNAL STANDARD AREA AND RT SUMMARY EPA-8260B

Laboratory: BC Laboratories SDG: 17-19853

Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda

Sequence: 1712906 Instrument: MS-V5

Matrix: Water Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (1712906-ICV1)			Lab File ID: 20JUL12.D			Analyzed: 07/20/17 12:00			
Pentafluorobenzene (IS)	184644	6.58	187618	6.58	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	74559	9.62	72968	9.61	102	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	285117	7.38	281102	7.38	101	50 - 200	0.0000	+/-0.50	
Initial Cal Blank (1712906-ICB1)			Lab File ID: 20JUL14.D			Analyzed: 07/20/17 12:46			
Pentafluorobenzene (IS)	181261	6.57	184644	6.58	98	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	73863	9.61	74559	9.62	99	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	281231	7.38	285117	7.38	99	50 - 200	0.0000	+/-0.50	
Calibration Check (1712906-CCV1)			Lab File ID: 24JUL02.D			Analyzed: 07/24/17 04:40			
Pentafluorobenzene (IS)	191086	6.57	187618	6.58	102	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	76029	9.61	72968	9.61	104	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	299997	7.38	281102	7.38	107	50 - 200	0.0000	+/-0.50	
Calibration Blank (1712906-CCB1)			Lab File ID: 24JUL05.D			Analyzed: 07/24/17 05:49			
Pentafluorobenzene (IS)	191728	6.58	191086	6.57	100	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	74667	9.61	76029	9.61	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	291569	7.38	299997	7.38	97	50 - 200	0.0000	+/-0.50	
Blank (B G1819-BLK1)			Lab File ID: 24JUL06.D			Analyzed: 07/24/17 06:12			
Pentafluorobenzene (IS)	194279	6.58	191086	6.57	102	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	79322	9.61	76029	9.61	104	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	297409	7.38	299997	7.38	99	50 - 200	0.0000	+/-0.50	
LCS (B G1819-BS1)			Lab File ID: 24JUL08.D			Analyzed: 07/24/17 06:58			
Pentafluorobenzene (IS)	199186	6.57	191086	6.57	104	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	80327	9.62	76029	9.61	106	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	306709	7.38	299997	7.38	102	50 - 200	0.0000	+/-0.50	
Matrix Spike (B G1819-MS1)			Lab File ID: 24JUL09.D			Analyzed: 07/24/17 07:21			
Pentafluorobenzene (IS)	197522	6.57	191086	6.57	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	78902	9.62	76029	9.61	104	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	296235	7.38	299997	7.38	99	50 - 200	0.0000	+/-0.50	



AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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INTERNAL STANDARD AREA AND RT SUMMARY EPA-8260B

Laboratory: BC Laboratories SDG: 17-19853

Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda

Sequence: 1712906 Instrument: MS-V5

Matrix: Water Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (B G1819-MSD1)			Lab File ID: 24JUL10.D			Analyzed: 07/24/17 07:44			
Pentafluorobenzene (IS)	202591	6.58	191086	6.57	106	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	78370	9.62	76029	9.61	103	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	306542	7.38	299997	7.38	102	50 - 200	0.0000	+/-0.50	
Calibration Check (1712906-CCV4)			Lab File ID: 24JUL32.D			Analyzed: 07/24/17 16:35			
Pentafluorobenzene (IS)	197596	6.57	187618	6.58	105	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	77983	9.62	72968	9.61	107	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	299126	7.38	281102	7.38	106	50 - 200	0.0000	+/-0.50	
Calibration Blank (1712906-CCB2)			Lab File ID: 24JUL35.D			Analyzed: 07/24/17 17:44			
Pentafluorobenzene (IS)	192938	6.57	197596	6.57	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	76046	9.61	77983	9.62	98	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	290446	7.38	299126	7.38	97	50 - 200	0.0000	+/-0.50	
EB16_170719 (1719853-01)			Lab File ID: 24JUL43.D			Analyzed: 07/24/17 20:48			
Pentafluorobenzene (IS)	190274	6.58	197596	6.57	96	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	77240	9.61	77983	9.62	99	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	291600	7.38	299126	7.38	97	50 - 200	0.0000	+/-0.50	
M10B-01_170719 (1719853-02)			Lab File ID: 24JUL44.D			Analyzed: 07/24/17 21:11			
Pentafluorobenzene (IS)	184244	6.58	197596	6.57	93	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	73037	9.61	77983	9.62	94	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	282223	7.39	299126	7.38	94	50 - 200	0.0100	+/-0.50	
M13-07_170719 (1719853-03)			Lab File ID: 24JUL45.D			Analyzed: 07/24/17 21:35			
Pentafluorobenzene (IS)	180751	6.57	197596	6.57	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	71704	9.61	77983	9.62	92	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	269125	7.38	299126	7.38	90	50 - 200	0.0000	+/-0.50	
M13-09_170719 (1719853-04)			Lab File ID: 24JUL46.D			Analyzed: 07/24/17 21:58			
Pentafluorobenzene (IS)	184146	6.58	197596	6.57	93	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	74961	9.62	77983	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	284255	7.38	299126	7.38	95	50 - 200	0.0000	+/-0.50	



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

**INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B**

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Sequence:	<u>1712906</u>	Instrument:	<u>MS-V5</u>
Matrix:	<u>Water</u>	Calibration:	<u>1707017</u>

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
MW530-1_170719 (1719853-05)			Lab File ID: 24JUL47.D			Analyzed: 07/24/17 22:21			
Pentafluorobenzene (IS)	174397	6.57	197596	6.57	88	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	72629	9.61	77983	9.62	93	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	270659	7.38	299126	7.38	90	50 - 200	0.0000	+/-0.50	
MW530-2_170719 (1719853-06)			Lab File ID: 24JUL48.D			Analyzed: 07/24/17 22:44			
Pentafluorobenzene (IS)	183079	6.58	197596	6.57	93	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	74220	9.62	77983	9.62	95	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	281507	7.38	299126	7.38	94	50 - 200	0.0000	+/-0.50	
MWOR-4_170719 (1719853-07)			Lab File ID: 24JUL49.D			Analyzed: 07/24/17 23:07			
Pentafluorobenzene (IS)	185183	6.57	197596	6.57	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	73837	9.62	77983	9.62	95	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	291525	7.38	299126	7.38	97	50 - 200	0.0000	+/-0.50	
Calibration Check (1712906-CCV7)			Lab File ID: 24JUL62.D			Analyzed: 07/25/17 04:06			
Pentafluorobenzene (IS)	176401	6.57	187618	6.58	94	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	71558	9.62	72968	9.61	98	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	265804	7.38	281102	7.38	95	50 - 200	0.0000	+/-0.50	
Calibration Blank (1712906-CCB3)			Lab File ID: 24JUL65.D			Analyzed: 07/25/17 05:15			
Pentafluorobenzene (IS)	187880	6.58	176401	6.57	107	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	74687	9.61	71558	9.62	104	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	284268	7.38	265804	7.38	107	50 - 200	0.0000	+/-0.50	



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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION STANDARDS**EPA-8260B**

Laboratory: BC Laboratories SDG: 17-19853
Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda
Sequence: 1712752 Instrument: MS-V5
Calibration: 1707017

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
7G20063	8260 V5 1712752 TPPH IC1	1712752-CALD	17JUL50.D	07/18/17 00:00
7G20064	8260 V5 1712752 TPPH IC2	1712752-CALE	17JUL51.D	07/18/17 00:23
7G20065	8260 V5 1712752 TPPH IC3	1712752-CALF	17JUL52.D	07/18/17 00:46
7G20066	8260 V5 1712752 TPPH IC4	1712752-CALG	17JUL53.D	07/18/17 01:09
7G20067	8260 V5 1712752 TPPH IC5	1712752-CALH	17JUL54.D	07/18/17 01:32
7G20068	8260 V5 1712752 TPPH IC6	1712752-CALI	17JUL55.D	07/18/17 01:55
7F24002	8260 V5 BFB 50NG	1712752-TUN1	20JUL02.D	07/20/17 08:09
7G20044	8260 V5 1712752 IC1	1712752-CAL1	20JUL03.D	07/20/17 08:32
7G20045	8260 V5 1712752 IC2	1712752-CAL2	20JUL05.D	07/20/17 09:18
7G20046	8260 V5 1712752 IC3	1712752-CAL3	20JUL06.D	07/20/17 09:42
7G20047	8260 V5 1712752 IC4	1712752-CAL4	20JUL07.D	07/20/17 10:05
7G20048	8260 V5 1712752 IC5	1712752-CAL5	20JUL08.D	07/20/17 10:28
7G20049	8260 V5 1712752 IC6	1712752-CAL6	20JUL09.D	07/20/17 10:51
7G20056	8260 V5 1712752 XIC1	1712752-CAL7	20JUL15.D	07/20/17 13:09
7G20057	8260 V5 1712752 XIC2	1712752-CAL8	20JUL17.D	07/20/17 13:55
7G20058	8260 V5 1712752 XIC3	1712752-CAL9	20JUL18.D	07/20/17 14:18
7G20059	8260 V5 1712752 XIC4	1712752-CALA	20JUL19.D	07/20/17 14:41
7G20060	8260 V5 1712752 XIC5	1712752-CALB	20JUL20.D	07/20/17 15:04
7G20061	8260 V5 1712752 XIC6	1712752-CALC	20JUL21.D	07/20/17 15:27



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Project: Alameda

Project Number: 5023146096

Project Manager: Kevin Olness

INITIAL CALIBRATION DATA

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Calibration:	<u>1707017</u>	Instrument:	<u>MS-V5</u>
Matrix:	<u>Water</u>	Calibration Date:	<u>07/18/17 00:46</u>

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF										
Benzene	0.5	2.205326	1	2.188152	10	2.178289	25	1.917287	50	1.970505	100	1.826874
Bromobenzene	0.5	1.219182	1	1.216805	10	1.171389	25	1.141355	50	1.141528	100	1.116624
Bromochloromethane	0.5	0.1707748	1	0.1767661	10	0.1705309	25	0.1543114	50	0.1624719	100	0.1637527
Bromodichloromethane	0.5	0.2888162	1	0.2612885	10	0.2951588	25	0.2850666	50	0.2984239	100	0.2985407
Bromoform	0.5	0.2057274	1	0.2048542	10	0.237243	25	0.2574389	50	0.2735148	100	0.2939998
Bromomethane	0.5	0.4056016	1	0.4036265	10	0.4194379	25	0.3840293	50	0.4138878	100	0.4125492
n-Butylbenzene	0.5	5.079156	1	5.143868	10	5.21983	25	4.812707	50	4.647704	100	3.887741
sec-Butylbenzene	0.5	6.710012	1	6.711804	10	7.08428	25	6.565459	50	6.055303	100	4.759451
tert-Butylbenzene	0.5	4.756373	1	4.697087	10	4.878822	25	4.997994	50	4.368193	100	4.265216
Carbon tetrachloride	0.5	0.4114077	1	0.4033074	10	0.4811493	25	0.4442985	50	0.4811005	100	0.4747828
Chlorobenzene	0.5	3.718715	1	3.505819	10	3.379041	25	3.237474	50	3.173113	100	2.882659
Chloroethane	0.5	0.5656856	1	0.5508556	10	0.5391568	25	0.46994	50	0.4862093	100	0.4756012
Chloroform	0.5	0.7884393	1	0.8118567	10	0.7797252	25	0.7046062	50	0.7411616	100	0.7168718
Chloromethane	0.5	1.10575	1	0.9995168	10	0.9853529	25	0.8464923	50	0.8754543	100	0.8317765
2-Chlorotoluene	0.5	4.687283	1	5.164477	10	5.044175	25	4.655328	50	4.583238	100	3.928318
4-Chlorotoluene	0.5	4.382323	1	4.481816	10	4.64285	25	4.255438	50	4.026009	100	3.554765
Dibromochloromethane	0.5	0.1380726	1	0.1181608	10	0.1512567	25	0.1562949	50	0.1665531	100	0.1722335
1,2-Dibromo-3-chloropropane	0.5		1	6.507398E-02	10	6.963586E-02	25	7.759018E-02	50	7.440618E-02	100	7.979806E-02
1,2-Dibromoethane	0.5	0.1390244	1	0.1129216	10	0.1365675	25	0.1245114	50	0.1307515	100	0.1324942
Dibromomethane	0.5	8.863772E-02	1	0.0959453	10	0.103105	25	9.070871E-02	50	0.0977421	100	9.844587E-02
1,2-Dichlorobenzene	0.5	2.246939	1	2.140833	10	2.244323	25	2.128007	50	2.159181	100	2.0199
1,3-Dichlorobenzene	0.5	2.530337	1	2.604527	10	2.703227	25	2.506085	50	2.452092	100	2.203254
1,4-Dichlorobenzene	0.5	2.395899	1	2.476843	10	2.57751	25	2.471593	50	2.453264	100	2.28432
Dichlorodifluoromethane	0.5	0.4018229	1	0.4651619	10	0.5834478	25	0.4982614	50	0.527767	100	0.5091024
1,1-Dichloroethane	0.5	1.128238	1	1.080744	10	1.129469	25	1.011244	50	1.063002	100	1.007938



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Project: Alameda

Project Number: 5023146096

Project Manager: Kevin Olness

INITIAL CALIBRATION DATA

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Calibration:	<u>1707017</u>	Instrument:	<u>MS-V5</u>
Matrix:	<u>Water</u>	Calibration Date:	<u>07/18/17 00:46</u>

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF										
1,2-Dichloroethane	0.5	0.3840358	1	0.4451059	10	0.4391068	25	0.3850974	50	0.4008601	100	0.3865656
1,1-Dichloroethene	0.5	0.7938768	1	0.8264429	10	0.8811618	25	0.7704058	50	0.8053397	100	0.7645738
cis-1,2-Dichloroethene	0.5	0.5379451	1	0.5619319	10	0.5358463	25	0.4858169	50	0.5074463	100	0.5042185
trans-1,2-Dichloroethene	0.5	0.5264249	1	0.5006701	10	0.5310431	25	0.4693174	50	0.4927404	100	0.4855568
Total 1,2-Dichloroethene	1	0.532185	2	0.531301	20	0.5334447	50	0.4775672	100	0.5000933	200	0.4948876
1,2-Dichloropropane	0.5	0.3746579	1	0.39104	10	0.3895945	25	0.3719575	50	0.37968	100	0.369488
1,3-Dichloropropane	0.5	0.2577037	1	0.2665863	10	0.2493798	25	0.2444977	50	0.2531674	100	0.2456878
2,2-Dichloropropane	0.5	0.5992323	1	0.5587868	10	0.64	25	0.578	50	0.6240741	100	0.613221
1,1-Dichloropropene	0.5	0.685956	1	0.7289435	10	0.7278951	25	0.6364805	50	0.6776871	100	0.6505123
cis-1,3-Dichloropropene	0.5	0.3328971	1	0.3317694	10	0.3690938	25	0.3615001	50	0.3821143	100	0.3792023
trans-1,3-Dichloropropene	0.5	0.1857228	1	0.2073449	10	0.2445983	25	0.2456873	50	0.260574	100	0.2637407
Total 1,3-Dichloropropene	1	0.2593099	2	0.2695571	20	0.306846	50	0.3035937	100	0.3213442	200	0.3214715
Ethylbenzene	0.5	1.933397	1	2.1032	10	2.063766	25	1.930792	50	1.927625	100	1.731043
Hexachlorobutadiene	0.5	0.9727494	1	0.8039604	10	0.8502897	25	0.8577897	50	0.8736814	100	0.8294891
Isopropylbenzene	0.5	6.01384	1	6.197708	10	6.294564	25	5.807965	50	5.443937	100	4.447883
p-Isopropyltoluene	0.5	5.675215	1	5.416149	10	5.722833	25	5.274992	50	4.860035	100	3.9474
Methylene chloride	0.5	0.6828225	1	0.4693098	10	0.4590943	25	0.4047202	50	0.4129435	100	0.4113701
Methyl t-butyl ether	0.5	0.5949007	1	0.621872	10	0.627589	25	0.5721711	50	0.6097697	100	0.5968097
Naphthalene	0.5	1.449333	1	1.295095	10	1.630989	25	1.613008	50	1.707123	100	1.718713
n-Propylbenzene	0.5	7.843163	1	7.570982	10	7.957535	25	7.067525	50	6.578078	100	5.048542
Styrene	0.5	3.322662	1	3.513659	10	3.615951	25	3.422815	50	3.346784	100	2.919674
1,1,1,2-Tetrachloroethane	0.5	0.7348977	1	0.7534469	10	0.8415455	25	0.8637923	50	0.8877083	100	0.8147995
1,1,2,2-Tetrachloroethane	0.5	0.4990264	1	0.5452326	10	0.5402339	25	0.5664291	50	0.5528699	100	0.5586496
Tetrachloroethene	0.5	0.3402142	1	0.3382379	10	0.3457113	25	0.312086	50	0.3232717	100	0.3148982
Toluene	0.5	0.9042237	1	0.868103	10	0.9403254	25	0.8511615	50	0.847993	100	0.7859008
1,2,3-Trichlorobenzene	0.5	1.097286	1	0.9971663	10	1.056308	25	1.020776	50	1.070089	100	1.047459



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INITIAL CALIBRATION DATA EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Calibration:	<u>1707017</u>	Instrument:	<u>MS-V5</u>
Matrix:	<u>Water</u>	Calibration Date:	<u>07/18/17 00:46</u>

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2,4-Trichlorobenzene	0.5	1.251086	1	1.203365	10	1.227546	25	1.250998	50	1.293432	100	1.267368
1,1,1-Trichloroethane	0.5	0.6254982	1	0.6510899	10	0.6849219	25	0.6308968	50	0.6766241	100	0.6633196
1,1,2-Trichloroethane	0.5	0.1444973	1	0.1708459	10	0.1625271	25	0.1509673	50	0.1515498	100	0.1535111
Trichloroethene	0.5	0.3308745	1	0.3413405	10	0.3603684	25	0.3346927	50	0.3492275	100	0.3439039
Trichlorofluoromethane	0.5	0.5650405	1	0.6137128	10	0.6705809	25	0.6016331	50	0.629348	100	0.6149857
1,2,3-Trichloropropane	0.5	0.0503867	1	9.329884E-02	10	0.1102858	25	0.1262033	50	0.1224488	100	0.1257712
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.3727	1	0.3929148	10	0.477208	25	0.4199171	50	0.4389687	100	0.435146
1,2,4-Trimethylbenzene	0.5	4.913914	1	5.052026	10	5.080891	25	4.637967	50	4.517373	100	3.8343
1,3,5-Trimethylbenzene	0.5	4.969581	1	4.782097	10	5.249436	25	4.834843	50	4.626234	100	3.844775
Vinyl chloride	0.5	0.7736935	1	0.7846444	10	0.7935103	25	0.7054398	50	0.7348614	100	0.7043199
Total Xylenes	1.5	2.506427	3	2.392803	30	2.534773	75	2.325878	150	2.240477	300	1.937794
Total Trihalomethanes	2	8333	4	8151	40	6297.45	100	6876.23	200	7251.58	400	7416.965
Acetone												
Acetonitrile												
Acrolein												
Acrylonitrile												
Allyl chloride												
t-Amyl Alcohol												
t-Amyl Methyl ether												
Benzyl chloride												
t-Butyl alcohol												
Carbon disulfide												
2-Chloroethyl vinyl ether	2	9.159726E-02	4	9.464281E-02	40	0.1049256	100	0.0975998	200	0.1009555	400	9.820488E-02
Chloroprene												
Chlorotrifluoroethene												
Cyclohexane												



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INITIAL CALIBRATION DATA

EPA-8260B

Laboratory: BC Laboratories SDG: 17-19853
Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda
Calibration: 1707017 Instrument: MS-V5
Matrix: Water Calibration Date: 07/18/17 00:46

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF										
Cyclohexanone												
trans-1,4-Dichloro-2-butene												
1,2-Dichlorotrifluoroethane												
2,2-Dichloro-1,1,1-trifluoroethane												
Diethyl ether												
Diisopropyl ether												
1,4-Dioxane												
Ethanol												
Ethyl Amyl Ketone												
Ethyl methacrylate												
Ethyl t-butyl ether												
Hexachloroethane	0.5	0.5014467	1	0.4756785	10	0.6755117	25	0.7837627	50	0.8954399	100	0.9270817
Hexane												
2-Hexanone												
Isobutanol												
Isopropyl alcohol												
Methacrylonitrile												
Methyl acetate												
Methylcyclohexane												
Methyl ethyl ketone												
5-Methyl-3-heptanone												
Methyl iodide												
Methyl isobutyl ketone												
Methyl methacrylate												
Pentachloroethane												
Propionitrile												



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INITIAL CALIBRATION DATA EPA-8260B

Laboratory: BC Laboratories SDG: 17-19853
Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda
Calibration: 1707017 Instrument: MS-V5
Matrix: Water Calibration Date: 07/18/17 00:46

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF										
Tetrahydrofuran												
Vinyl acetate												
p- & m-Xylenes	1	2.665545	2	2.484628	20	2.59251	50	2.358552	100	2.274933	200	1.923861
o-Xylene	0.5	2.188191	1	2.209155	10	2.419298	25	2.260531	50	2.171565	100	1.965659
Total Purgeable Petroleum Hydrocarbons												
1,2-Dichloroethane-d4 (Surrogate)	10	0.3012474	10	0.3018151	10	0.2951343	10	0.2961709	10	0.2815387	10	0.2765317
Toluene-d8 (Surrogate)	10	1.220306	10	1.23463	10	1.223885	10	1.247597	10	1.242184	10	1.240574
4-Bromofluorobenzene (Surrogate)	10	1.433469	10	1.499199	10	1.502352	10	1.520913	10	1.496218	10	1.506919



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INITIAL CALIBRATION DATA (Continued)**EPA-8260B**

Laboratory: BC Laboratories SDG: 17-19853
Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda
Calibration: 1707017 Instrument: MS-V5
Matrix: Water Calibration Date: 07/18/17 00:46

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF										
Benzene												
Bromobenzene												
Bromochloromethane												
Bromodichloromethane												
Bromoform												
Bromomethane												
n-Butylbenzene												
sec-Butylbenzene												
tert-Butylbenzene												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
Chloromethane												
2-Chlorotoluene												
4-Chlorotoluene												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane												
Dibromomethane												
1,2-Dichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION DATA (Continued)**EPA-8260B**

Laboratory: BC Laboratories SDG: 17-19853
Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda
Calibration: 1707017 Instrument: MS-V5
Matrix: Water Calibration Date: 07/18/17 00:46

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF										
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
Total 1,2-Dichloroethene												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Total 1,3-Dichloropropene												
Ethylbenzene												
Hexachlorobutadiene												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl t-butyl ether												
Naphthalene												
n-Propylbenzene												
Styrene												
1,1,1,2-Tetrachloroethane												
1,1,2,2-Tetrachloroethane												
Tetrachloroethene												
Toluene												



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Calibration:	<u>1707017</u>	Instrument:	<u>MS-V5</u>
Matrix:	<u>Water</u>	Calibration Date:	<u>07/18/17 00:46</u>

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF										
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,1-Trichloroethane												
1,1,2-Trichloroethane												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,1,2-Trichloro-1,2,2-trifluoroethan												
1,2,4-Trimethylbenzene												
1,3,5-Trimethylbenzene												
Vinyl chloride												
Total Xylenes												
Total Trihalomethanes												
Acetone	16	<u>5.913292E-02</u>	64	<u>4.599338E-02</u>	160	<u>4.103835E-02</u>	320	<u>4.031304E-02</u>	480	<u>4.108004E-02</u>	800	<u>3.760307E-02</u>
Acetonitrile	8	<u>2.695552E-02</u>	32	<u>1.960255E-02</u>	80	<u>1.920197E-02</u>	160	<u>2.144367E-02</u>	240	<u>2.002026E-02</u>	400	<u>1.785035E-02</u>
Acrolein	10	<u>1.972513E-02</u>	40	<u>1.667181E-02</u>	100	<u>1.701337E-02</u>	200	<u>1.765107E-02</u>	320	<u>1.949597E-02</u>	500	<u>1.878359E-02</u>
Acrylonitrile	4	<u>6.941822E-02</u>	16	<u>6.623777E-02</u>	40	<u>0.0658311</u>	80	<u>7.210025E-02</u>	128	<u>6.893948E-02</u>	200	<u>6.511422E-02</u>
Allyl chloride	1.6	<u>1.050814</u>	6.4	<u>1.041274</u>	16	<u>0.9506615</u>	32	<u>1.007182</u>	48	<u>1.029587</u>	80	<u>0.9395298</u>
t-Amyl Alcohol	50	<u>8.032449E-03</u>	800	<u>9.524721E-03</u>	1250	<u>9.905137E-03</u>	2500	<u>9.740474E-03</u>	5000	<u>1.046225E-02</u>	10000	<u>9.871505E-03</u>
t-Amyl Methyl ether	0.8	<u>0.7471763</u>	3.2	<u>0.6725988</u>	8	<u>0.6496974</u>	16	<u>0.6548471</u>	24	<u>0.6800442</u>	40	<u>0.6322338</u>
Benzyl chloride	1.6	<u>0.4382151</u>	6.4	<u>0.4365577</u>	16	<u>0.5300994</u>	32	<u>0.633176</u>	48	<u>0.70099</u>	80	<u>0.7136597</u>
t-Butyl alcohol	40	<u>1.143621E-02</u>	160	<u>1.211876E-02</u>	400	<u>1.136453E-02</u>	800	<u>1.229585E-02</u>	1200	<u>1.204151E-02</u>	2000	<u>1.172973E-02</u>
Carbon disulfide	1.6	<u>1.612511</u>	6.4	<u>1.590032</u>	16	<u>1.436133</u>	32	<u>1.534608</u>	48	<u>1.516942</u>	80	<u>1.40647</u>
2-Chloroethyl vinyl ether												
Chloroprene	1.6	<u>1.071512</u>	6.4	<u>1.112796</u>	16	<u>1.008223</u>	32	<u>1.07318</u>	48	<u>1.076242</u>	80	<u>0.9842234</u>



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM

Project: Alameda

Project Number: 5023146096

Project Manager: Kevin Olness

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Calibration:	<u>1707017</u>	Instrument:	<u>MS-V5</u>
Matrix:	<u>Water</u>	Calibration Date:	<u>07/18/17 00:46</u>

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF										
Chlorotrifluoroethene	0.5		8		12.5		25		50		100	
Cyclohexane	0.5	1.482325	8	1.263236	12.5	1.329052	25	1.267676	50	1.334388	100	1.175706
Cyclohexanone	20	6.358106E-02	80	6.628495E-02	200	6.822814E-02	400	6.908269E-02	640	7.092473E-02	1000	5.899832E-02
trans-1,4-Dichloro-2-butene	4	8.074372E-02	16	8.737028E-02	40	9.320468E-02	80	0.1065481	120	0.123592	200	0.1157037
1,2-Dichlorotrifluoroethane	0.5	0.6859837	8	0.6588055	12.5	0.6793278	25	0.638394	50	0.676567	100	0.6141745
2,2-Dichloro-1,1,1-trifluoroethane	0.5	0.9083162	8	0.9597198	12.5	0.9983099	25	0.9543751	50	0.985508	100	0.8832252
Diethyl ether	0.5	0.2111134	8	0.2536562	12.5	0.2639223	25	0.2561604	50	0.2694052	100	0.246137
Diisopropyl ether	0.8	0.4214582	3.2	0.3704387	8	0.3696763	16	0.3639739	24	0.3752221	40	0.3414226
1,4-Dioxane	100	9.86052E-04	400	8.876232E-04	1000	8.434942E-04	2000	9.681734E-04	3200	8.77229E-04	5000	8.925488E-04
Ethanol	200	1.798563E-03	800	0.0016678	2000	1.751246E-03	4000	1.971753E-03	6400	1.840862E-03	10000	1.78859E-03
Ethyl Amyl Ketone	0.5	0.3451332	8	0.3841675	12.5	0.397604	25	0.4054744	50	0.4408544	100	0.4016782
Ethyl methacrylate	4	0.1854642	16	0.167105	40	0.168185	80	0.1715498	120	0.174425	200	0.1580578
Ethyl t-butyl ether	0.8	1.363755	3.2	1.239683	8	1.201105	16	1.195171	24	1.20526	40	1.131976
Hexachloroethane												
Hexane	0.5	0.4991424	8	0.6434221	12.5	0.6767831	25	0.6679351	50	0.7140733	100	0.6554412
2-Hexanone	16	8.885617E-02	64	7.654621E-02	160	7.424711E-02	320	7.624129E-02	480	7.405345E-02	800	0.0648097
Isobutanol	20	4.592822E-03	80	5.358352E-03	200	5.606193E-03	400	6.207101E-03	640	6.227684E-03	1000	0.0060091
Isopropyl alcohol	40	6.806977E-03	160	8.425725E-03	400	8.390992E-03	800	9.223449E-03	1280	8.736689E-03	2000	8.285694E-03
Methacrylonitrile	8	7.891132E-02	32	6.557701E-02	80	0.0643209	160	6.549839E-02	240	6.559205E-02	400	6.185011E-02
Methyl acetate	5	0.1224393	80	0.1260496	125	0.1300511	250	0.123479	500	0.1292004	1000	0.1133594
Methylcyclohexane	0.5	0.535165	8	0.6134506	12.5	0.6454469	25	0.6244736	50	0.6667758	100	0.5818325
Methyl ethyl ketone	8	8.272069E-02	32	0.0760769	80	0.071924	160	7.022643E-02	240	7.220876E-02	400	6.581187E-02
5-Methyl-3-heptanone	1	0.4077138	16	0.4610412	25	0.5059596	50	0.4652818	100	0.4843645	200	0.4239197
Methyl iodide	1.6	0.538234	6.4	0.5614139	16	0.5443807	32	0.6237074	48	0.6434877	80	0.6257662
Methyl isobutyl ketone	8	0.128875	32	0.1125832	80	0.108463	160	0.1101708	240	0.111068	400	0.1001404



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San Diego, CA 92123

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Project: Alameda

Project Number: 5023146096

Project Manager: Kevin Olness

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Calibration:	<u>1707017</u>	Instrument:	<u>MS-V5</u>
Matrix:	<u>Water</u>	Calibration Date:	<u>07/18/17 00:46</u>

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF										
Methyl methacrylate	4	8.296988E-02	16	7.179267E-02	40	7.090842E-02	80	7.345802E-02	120	0.0766102	200	7.223151E-02
Pentachloroethane	0.8	0.4131191	3.2	0.3821454	8	0.3937293	16	0.3502018	24	0.4275086	40	0.4334585
Propionitrile	20	2.373542E-02	80	2.597889E-02	200	2.474398E-02	400	2.572553E-02	640	2.474225E-02	1000	2.244508E-02
Tetrahydrofuran	16	5.489204E-02	64	5.170965E-02	160	0.0475095	320	0.0481561	480	4.794157E-02	800	4.440709E-02
Vinyl acetate	8	0.691573	32	0.6018218	80	0.5827319	160	0.5569901	240	0.5691374	400	0.499651
p- & m-Xylenes												
o-Xylene												
Total Purgeable Petroleum Hydrocarbons												
1,2-Dichloroethane-d4 (Surrogate)												
Toluene-d8 (Surrogate)												
4-Bromofluorobenzene (Surrogate)												



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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories SDG: 17-19853
Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda
Calibration: 1707017 Instrument: MS-V5
Matrix: Water Calibration Date: 07/18/17 00:46

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF										
Benzene												
Bromobenzene												
Bromochloromethane												
Bromodichloromethane												
Bromoform												
Bromomethane												
n-Butylbenzene												
sec-Butylbenzene												
tert-Butylbenzene												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
Chloromethane												
2-Chlorotoluene												
4-Chlorotoluene												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane												
Dibromomethane												
1,2-Dichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												



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INITIAL CALIBRATION DATA (Continued)**EPA-8260B**

Laboratory: BC Laboratories SDG: 17-19853
Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda
Calibration: 1707017 Instrument: MS-V5
Matrix: Water Calibration Date: 07/18/17 00:46

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF										
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
Total 1,2-Dichloroethene												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Total 1,3-Dichloropropene												
Ethylbenzene												
Hexachlorobutadiene												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl t-butyl ether												
Naphthalene												
n-Propylbenzene												
Styrene												
1,1,1,2-Tetrachloroethane												
1,1,2,2-Tetrachloroethane												
Tetrachloroethene												



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Laboratory: BC Laboratories SDG: 17-19853
Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda
Calibration: 1707017 Instrument: MS-V5
Matrix: Water Calibration Date: 07/18/17 00:46

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF										
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,1-Trichloroethane												
1,1,2-Trichloroethane												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,1,2-Trichloro-1,2,2-trifluoroethan												
1,2,4-Trimethylbenzene												
1,3,5-Trimethylbenzene												
Vinyl chloride												
Total Xylenes												
Total Trihalomethanes												
Acetone												
Acetonitrile												
Acrolein												
Acrylonitrile												
Allyl chloride												
t-Amyl Alcohol												
t-Amyl Methyl ether												
Benzyl chloride												
t-Butyl alcohol												
Carbon disulfide												
2-Chloroethyl vinyl ether												



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INITIAL CALIBRATION DATA (Continued)**EPA-8260B**

Laboratory: BC Laboratories SDG: 17-19853
Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda
Calibration: 1707017 Instrument: MS-V5
Matrix: Water Calibration Date: 07/18/17 00:46

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF										
Chloroprene												
Chlorotrifluoroethene												
Cyclohexane												
Cyclohexanone												
trans-1,4-Dichloro-2-butene												
1,2-Dichlorotrifluoroethane												
2,2-Dichloro-1,1,1-trifluoroethane												
Diethyl ether												
Diisopropyl ether												
1,4-Dioxane												
Ethanol												
Ethyl Amyl Ketone												
Ethyl methacrylate												
Ethyl t-butyl ether												
Hexachloroethane												
Hexane												
2-Hexanone												
Isobutanol												
Isopropyl alcohol												
Methacrylonitrile												
Methyl acetate												
Methylecyclohexane												
Methyl ethyl ketone												
5-Methyl-3-heptanone												
Methyl iodide												



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INITIAL CALIBRATION DATA (Continued)**EPA-8260B**

Laboratory: BC Laboratories SDG: 17-19853
Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda
Calibration: 1707017 Instrument: MS-V5
Matrix: Water Calibration Date: 07/18/17 00:46

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl isobutyl ketone												
Methyl methacrylate												
Pentachloroethane												
Propionitrile												
Tetrahydrofuran												
Vinyl acetate												
p- & m-Xylenes												
o-Xylene												
Total Purgeable Petroleum Hydrocarbons	50	3.26912	500	3.855426	1000	3.833188	1500	3.697965	2000	3.767286	2500	3.469848
1,2-Dichloroethane-d4 (Surrogate)												
Toluene-d8 (Surrogate)												
4-Bromofluorobenzene (Surrogate)												



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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Calibration:	<u>1707017</u>	Instrument:	<u>MS-V5</u>
Matrix:	<u>Water</u>	Calibration Date:	<u>07/18/17 00:46</u>

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	2.047739	7.975319	6.936667	7.509294E-02			15	
Bromobenzene	1.167814	3.645673	10.44	2.779896E-03			15	
Bromochloromethane	0.1664346	4.747927	6.175	8.897551E-02			15	
Bromodichloromethane	0.2878825	4.896981	8.051667	0.0545546			15	
Bromoform	0.245463	14.7808	10.15333	4.894263E-02			SPCC (0.10)	
Bromomethane	0.406522	3.057725	2.436667	0.2126912			15	
n-Butylbenzene	4.798501	10.32777	11.19667	4.432301E-02			15	
sec-Butylbenzene	6.314385	13.16495	10.89	1.492901E-02			15	
tert-Butylbenzene	4.660614	6.172505	10.76167	3.643903E-02			15	
Carbon tetrachloride	0.449341	7.868999	6.71	1.409485E-02			15	
Chlorobenzene	3.316137	8.703972	9.636667	5.028739E-02			SPCC (0.30)	
Chloroethane	0.5145747	8.175335	2.566667	0.2020673			15	
Chloroform	0.7571101	5.641054	6.323333	8.020835E-02			CCC (20)	
Chloromethane	0.9407238	11.41846	1.948333	0.209787			SPCC (0.10)	
2-Chlorotoluene	4.677137	9.281955	10.54	8.602669E-03			15	
4-Chlorotoluene	4.223867	9.200021	10.61	1.653803E-02			15	
Dibromochloromethane	0.1504286	13.17659	9.235	5.969866E-02			15	
1,2-Dibromo-3-chloropropane	7.330085E-02	8.155469	11.664	4.802395E-02			15	
1,2-Dibromoethane	0.1293784	7.339435	9.32	1.632331E-02			15	
Dibromomethane	9.576412E-02	5.552506	7.905	6.711508E-02			15	
1,2-Dichlorobenzene	2.15653	3.913674	11.23833	3.489351E-02			15	
1,3-Dichlorobenzene	2.49992	6.777549	10.97833	3.290541E-02			15	
1,4-Dichlorobenzene	2.443238	3.991734	11.03	1.470375E-02			15	
Dichlorodifluoromethane	0.4975939	12.26991	1.76	8.063699E-03			15	
1,1-Dichloroethane	1.070106	5.014371	5.05	1.556668E-02			SPCC (0.10)	
1,2-Dichloroethane	0.4067953	6.904985	6.998333	5.804784E-02			15	



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Calibration:	<u>1707017</u>	Instrument:	<u>MS-V5</u>
Matrix:	<u>Water</u>	Calibration Date:	<u>07/18/17 00:46</u>

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1-Dichloroethene	0.8069668	5.313301	3.515	0.1557692			CCC (20)	
cis-1,2-Dichloroethene	0.5222008	5.332765	5.821667	7.057926E-02			15	
trans-1,2-Dichloroethene	0.5009588	4.773832	4.501667	0.0902417			15	
Total 1,2-Dichloroethene	0.5115798	4.674194	5.821667	7.057926E-02			15	
1,2-Dichloropropane	0.379403	2.403017	7.831667	0.0524673			CCC (20)	
1,3-Dichloropropane	0.2528371	3.287487	9.078333	4.054708E-02			15	
2,2-Dichloropropane	0.602219	4.985956	5.83	6.523725E-03			15	
1,1-Dichloropropene	0.6845791	5.607404	6.72	9.471379E-02			15	
cis-1,3-Dichloropropene	0.3594295	6.186595	8.398333	4.271731E-02			15	
trans-1,3-Dichloropropene	0.2346113	13.31409	8.82	1.724867E-02			15	
Total 1,3-Dichloropropene	0.2970204	8.91472	8.82	1.724867E-02			15	
Ethylbenzene	1.948304	6.711166	9.69	2.086988E-02			CCC (20)	
Hexachlorobutadiene	0.86466	6.731708	12.17167	3.249952E-02			15	
Isopropylbenzene	5.700983	12.01191	10.23	0.0167001			15	
p-Isopropyltoluene	5.149437	12.94217	10.97	1.272075E-02			15	
Methylene chloride	0.4314876	7.008245	4.15	2.617728E-02			15	
Methyl t-butyl ether	0.603852	3.358593	4.483333	0.1145828			15	
Naphthalene	1.569043	10.53489	12.26	1.714861E-02			15	
n-Propylbenzene	7.403456	7.766669	10.476	5.149431E-02			15	
Styrene	3.356924	7.155197	10.02	0.0198293			15	
1,1,1,2-Tetrachloroethane	0.8160317	7.468304	9.69	2.086988E-02			15	
1,1,2,2-Tetrachloroethane	0.5437402	4.378707	10.40833	0.0365974			SPCC (0.30)	
Tetrachloroethene	0.3290699	4.314963	9.03	1.545367E-02			15	
Toluene	0.8662846	6.097255	8.65	1.331998E-02			CCC (20)	
1,2,3-Trichlorobenzene	1.048181	3.389568	12.38	1.070383E-02			15	
1,2,4-Trichlorobenzene	1.248966	2.496908	12.11	2.449746E-02			15	



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Reported: 8/1/2017 11:32:56AM
Project: Alameda
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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Calibration:	<u>1707017</u>	Instrument:	<u>MS-V5</u>
Matrix:	<u>Water</u>	Calibration Date:	<u>07/18/17 00:46</u>

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1-Trichloroethane	0.6553918	3.673248	6.526667	7.946589E-02			15	
1,1,2-Trichloroethane	0.1556498	6.06719	8.963333	5.878091E-02			15	
Trichloroethene	0.3434012	3.079274	7.601667	5.324327E-02			15	
Trichlorofluoromethane	0.6158835	5.608974	2.866667	0.1807154			15	
1,2,3-Trichloropropane	0.1156016	12.14427	10.45	1.965805E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.4228091	8.712896	3.531667	0.1142314			15	
1,2,4-Trimethylbenzene	4.672745	10.02384	10.79167	4.231581E-02			15	
1,3,5-Trimethylbenzene	4.717828	10.09625	10.57167	3.709394E-02			15	
Vinyl chloride	0.7494116	5.322207	2.07	5.801038E-03			CCC (20)	
Total Xylenes	2.323025	9.403007	10.01	9.924553E-03			15	
Total Trihalomethanes	7387.704	10.38989	10.15333	4.894263E-02			15	
Acetone	4.120558E-02	7.355169	3.554	0.1542441			15	
Acetonitrile	1.962376E-02	6.640588	3.908	0.1133817			15	
Acrolein	1.822349E-02	7.107257	3.39	2.140274E-03			15	
Acrylonitrile	6.794017E-02	3.939644	4.435	0.1236041			15	
Allyl chloride	1.003175	4.726935	3.98	1.761732E-02			15	
t-Amyl Alcohol	9.589422E-03	8.589473	6.96	9.150358E-02			15	
t-Amyl Methyl ether	0.6727663	5.977467	7.081667	5.899898E-02			15	
Benzyl chloride	0.5754497	21.75697	11.09	1.526915E-02	0.99878		0.99	
t-Butyl alcohol	0.0118311	3.22277	4.273333	0.2423085			15	
Carbon disulfide	1.516116	5.400329	3.79	0.013191			15	
2-Chloroethyl vinyl ether	9.798764E-02	4.768539	8.275	6.513453E-02			15	
Chloroprene	1.054363	4.56629	5.141667	8.153481E-02			15	
Chlorotrifluoroethene							15	
Cyclohexane	1.308731	7.841383	6.611667	5.923215E-02			15	
Cyclohexanone	6.618331E-02	6.533008	10.29167	4.271745E-02			15	



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Reported: 8/1/2017 11:32:56AM

Project: Alameda

Project Number: 5023146096

Project Manager: Kevin Olness

INITIAL CALIBRATION DATA (Continued)**EPA-8260B**

Laboratory:	<u>BC Laboratories</u>	SDG:	<u>17-19853</u>
Client:	<u>AMEC Environmental & Infrastructure- \$AMCN</u>	Project:	<u>Alameda</u>
Calibration:	<u>1707017</u>	Instrument:	<u>MS-V5</u>
Matrix:	<u>Water</u>	Calibration Date:	<u>07/18/17 00:46</u>

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
trans-1,4-Dichloro-2-butene	0.1052838	14.34315	10.426	5.090708E-02			15	
1,2-Dichlorotrifluoroethane	0.6588754	4.230009	3.296667	0.1557001			15	
2,2-Dichloro-1,1,1-trifluoroethane	0.9482424	4.689324	3.386667	0.1519809			15	
Diethyl ether	0.2500657	8.290032	3.22	2.123135E-02			15	
Diisopropyl ether	0.3736986	7.025495	5.096667	0.1006095			15	
1,4-Dioxane	9.091868E-04	6.11724	7.891667	5.151265E-02			15	
Ethanol	1.803136E-03	5.606357	3.081667	0.5201438			15	
Ethyl Amyl Ketone	0.3958186	7.879599	10.75167	3.756474E-02			15	
Ethyl methacrylate	0.1707978	5.312147	8.848334	4.928121E-02			15	
Ethyl t-butyl ether	1.222825	6.328552	5.583333	9.166626E-02			15	
Hexachloroethane	0.7098202	27.21178	11.4	3.753579E-03	0.99925		0.99	
Hexane	0.6427995	11.57174	4.855	0.1138465			15	
2-Hexanone	7.579232E-02	10.17669	9.091667	4.757151E-02			15	
Isobutanol	5.666875E-03	11.0932	6.84	9.249917E-02			15	
Isopropyl alcohol	8.311588E-03	9.768502	3.746667	0.3235285			15	
Methacrylonitrile	0.0669583	9.006243	6.12	1.277828E-02			15	
Methyl acetate	0.1240965	4.884847	3.965	0.1388816			15	
Methylcyclohexane	0.6111907	7.704348	7.806667	6.510089E-02			15	
Methyl ethyl ketone	7.316144E-02	7.850683	5.796667	9.151477E-02			15	
5-Methyl-3-heptanone	0.4580468	8.020127	10.43167	3.686923E-02			15	
Methyl iodide	0.5894983	7.903214	3.7	1.260276E-02			15	
Methyl isobutyl ketone	0.1118834	8.407287	8.5	0			15	
Methyl methacrylate	7.466178E-02	6.064135	7.871667	5.057399E-02			15	
Pentachloroethane	0.4000271	7.814724	10.79333	5.134563E-02			15	
Propionitrile	2.456186E-02	5.336931	5.881667	0.0697539			15	
Tetrahydrofuran	4.910266E-02	7.462978	6.186667	8.404824E-02			15	



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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories SDG: 17-19853
Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda
Calibration: 1707017 Instrument: MS-V5
Matrix: Water Calibration Date: 07/18/17 00:46

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Vinyl acetate	0.5836509	10.82416	5.053333	0.1030703			15	
p- & m-Xylenes	2.383338	11.21367	9.77	1.748639E-02			15	
o-Xylene	2.2024	6.662899	10.01	9.924553E-03			15	
Total Purgeable Petroleum Hydrocarbons	3.648805	6.360727	9.568334	4.958059			15	
1,2-Dichloroethane-d4 (Surrogate)	0.292073	3.616111	6.916667	7.506552E-02			15	
Toluene-d8 (Surrogate)	1.234863	0.8727884	8.6	4.975675E-03			15	
4-Bromofluorobenzene (Surrogate)	1.493178	2.042971	10.34333	4.926945E-02			15	



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Project: Alameda
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HOLDING TIME SUMMARY EPA-8260B

Laboratory: BC Laboratories SDG: 17-19853

Client: AMEC Environmental & Infrastructure- \$AMCN Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
EB16_170719	07/19/17 14:20	07/19/17 22:40	07/24/17 06:00	5.00	14.00	07/24/17 20:48	5.00	14.00	
M10B-01_170719	07/19/17 09:35	07/19/17 22:40	07/24/17 06:00	5.00	14.00	07/24/17 21:11	5.00	14.00	
M13-07_170719	07/19/17 14:10	07/19/17 22:40	07/24/17 06:00	5.00	14.00	07/24/17 21:35	5.00	14.00	
M13-09_170719	07/19/17 13:30	07/19/17 22:40	07/24/17 06:00	5.00	14.00	07/24/17 21:58	5.00	14.00	
MW530-1_170719	07/19/17 10:25	07/19/17 22:40	07/24/17 06:00	5.00	14.00	07/24/17 22:21	5.00	14.00	
MW530-2_170719	07/19/17 11:10	07/19/17 22:40	07/24/17 06:00	5.00	14.00	07/24/17 22:44	5.00	14.00	
MWOR-4_170719	07/19/17 12:55	07/19/17 22:40	07/24/17 06:00	5.00	14.00	07/24/17 23:07	5.00	14.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.



Laboratories, Inc.

Environmental Testing Laboratory Since 1949



Raw Data From Instrument MS-V5



Laboratories, Inc.

Environmental Testing Laboratory Since 1949



Raw Data - Samples

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL43.D Vial: 43
 Acq On : 24 Jul 2017 8:48 pm Operator: MGC
 Sample : 1719853-01 Inst : MS-V5
 Misc : 1 ;25ML;pH=1 Multipllr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 25 11:58 2017

Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)

Title : EPA Method 624/524.2/8260

Last Update : Thu Jul 20 11:28:22 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	190274	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	291600	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	77240	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	51696	9.30	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	93.00%
31) Toluene d8 SMC#2	8.60	98	350697	9.74	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	97.40%
49) Bromofluorobenzene SMC#3	10.35	95	110090	9.55	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	95.50%

Target Compounds Qvalue

(#= qualifier out of range (m)= manual integration

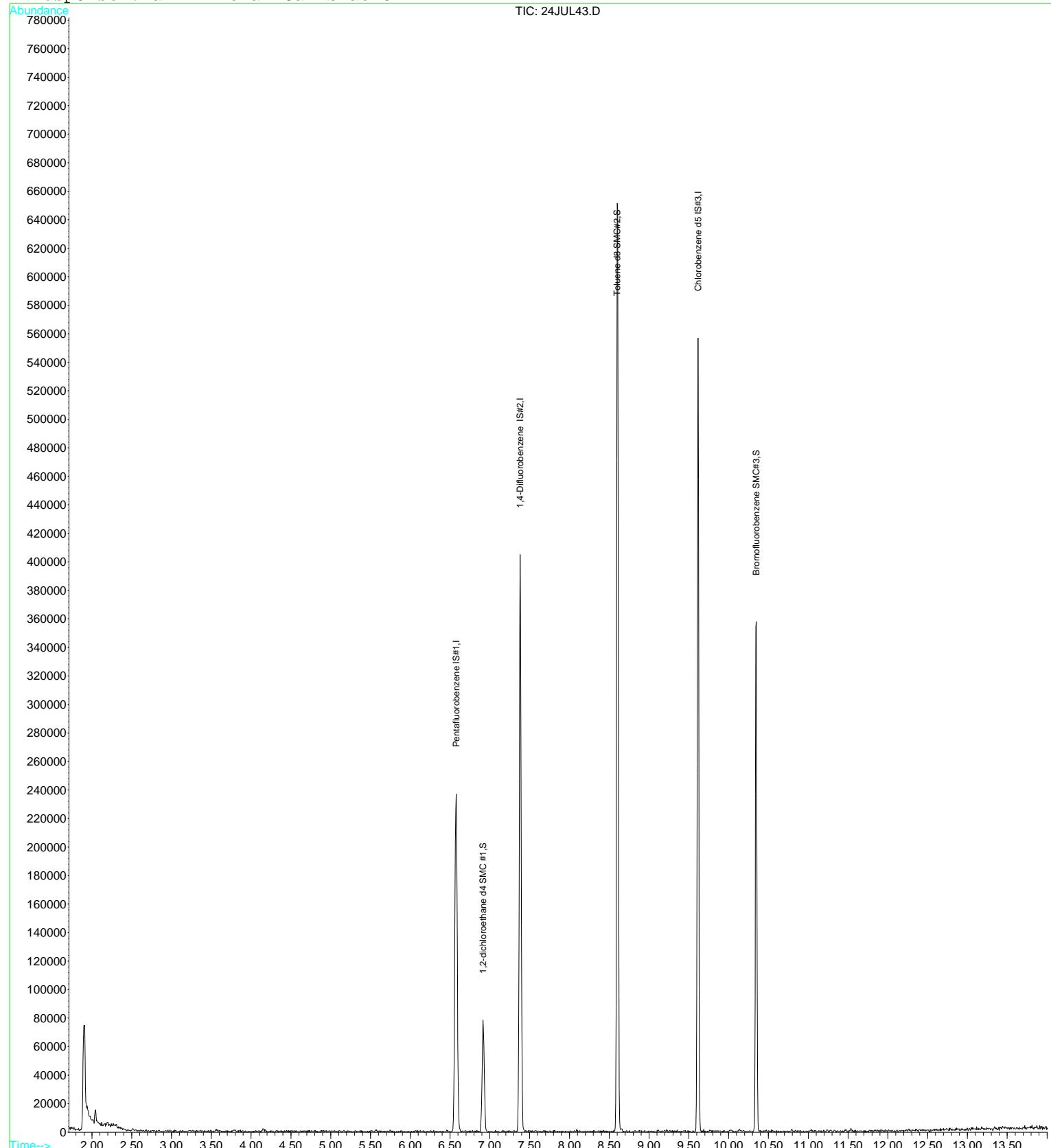
24JUL43.D 82605.M Tue Jul 25 12:06:46 2017

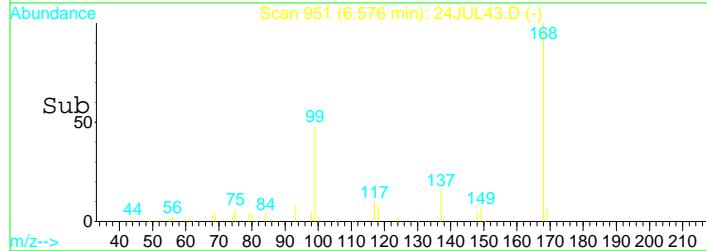
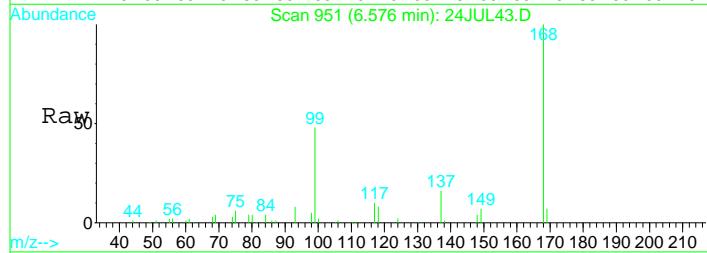
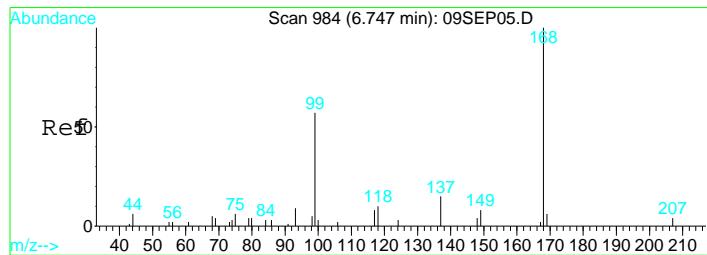
Page 1

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL43.D Vial: 43
 Acq On : 24 Jul 2017 8:48 pm Operator: MGC
 Sample : 1719853-01 Inst : MS-V5
 Misc : 1 ;25ML;pH=1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 25 11:58 2017 Quant Results File: 82605.RES

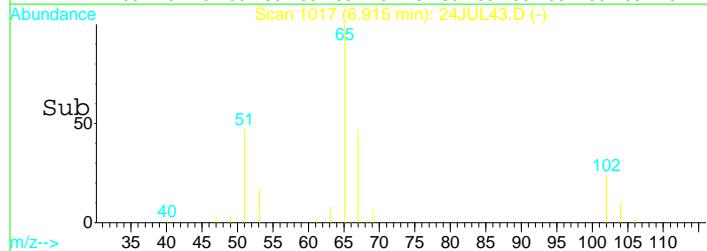
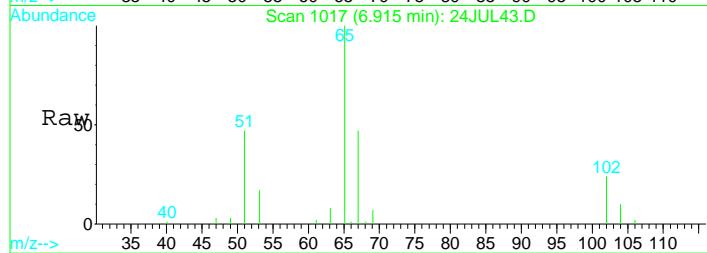
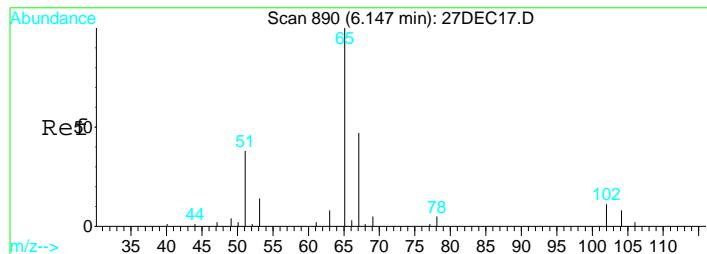
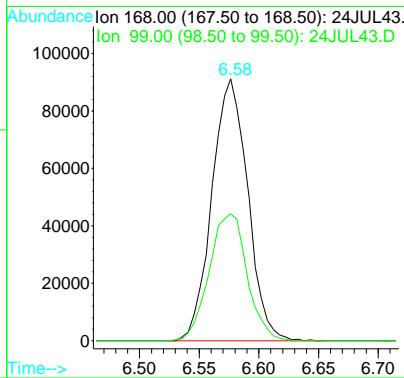
Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration





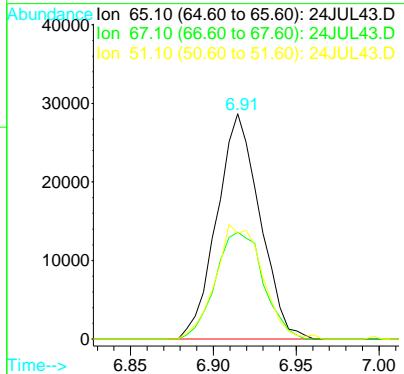
#1
 Pentafluorobenzene IS#1
 Concen: 10.00 ug/L
 RT: 6.58 min Scan# 951
 Delta R.T. -0.00 min
 Lab File: 24JUL43.D
 Acq: 24 Jul 2017 8:48 pm

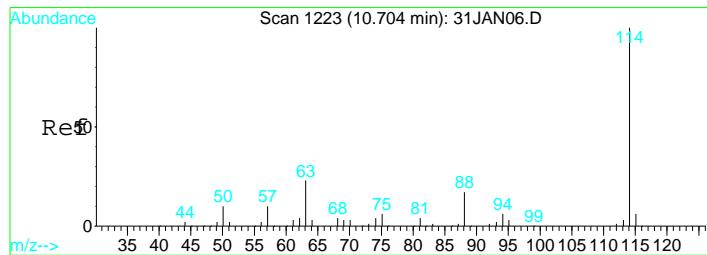
Tgt Ion: 168 Resp: 190274
 Ion Ratio Lower Upper
 168 100
 99 51.2 38.7 71.9



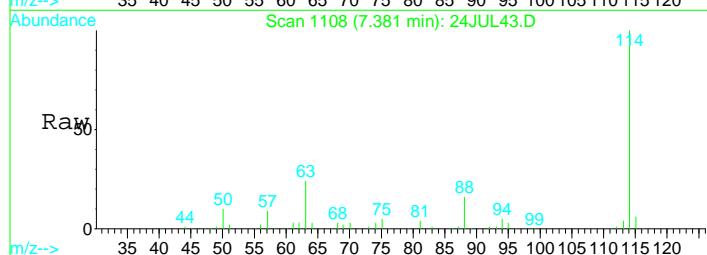
#21
 1,2-dichloroethane d4 SMC #1
 Concen: N.D. ug/L
 RT: 6.91 min Scan# 1017
 Delta R.T. -0.00 min
 Lab File: 24JUL43.D
 Acq: 24 Jul 2017 8:48 pm

Tgt Ion: 65 Resp: 51696
 Ion Ratio Lower Upper
 65 100
 67 52.8 36.2 67.2
 51 55.3 42.0 78.0

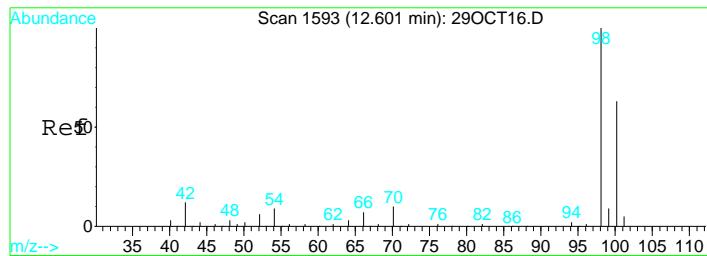
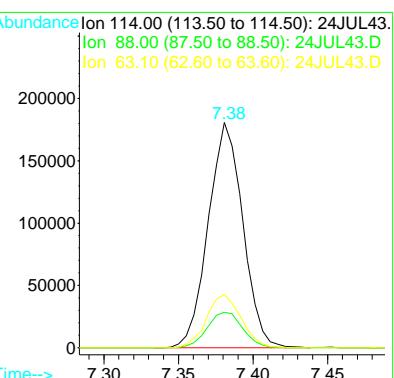
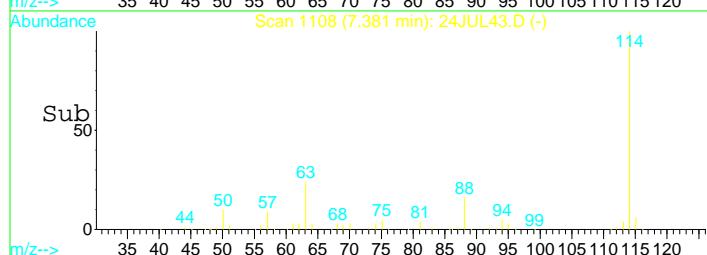




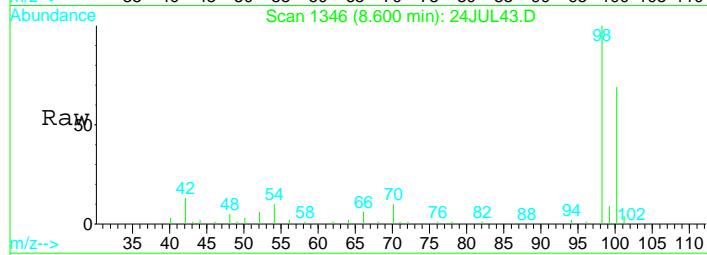
#24
1, 4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. -0.00 min
Lab File: 24JUL43.D
Acq: 24 Jul 2017 8:48 pm



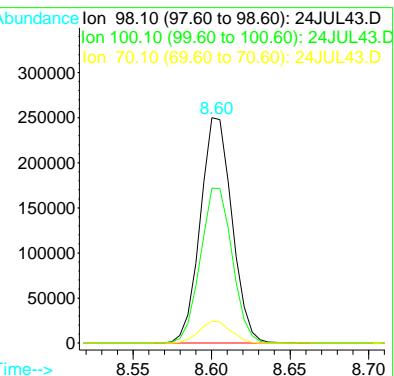
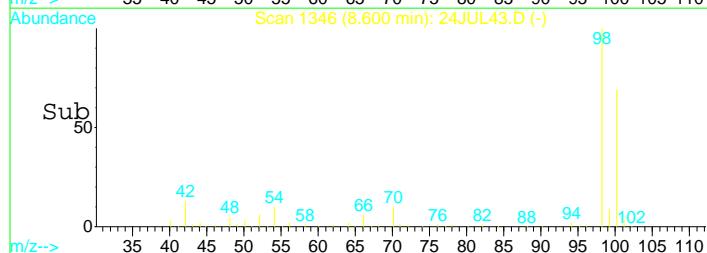
Tgt Ion: 114 Resp: 291600
Ion Ratio Lower Upper
114 100
88 16.3 11.7 21.7
63 23.8 16.7 30.9

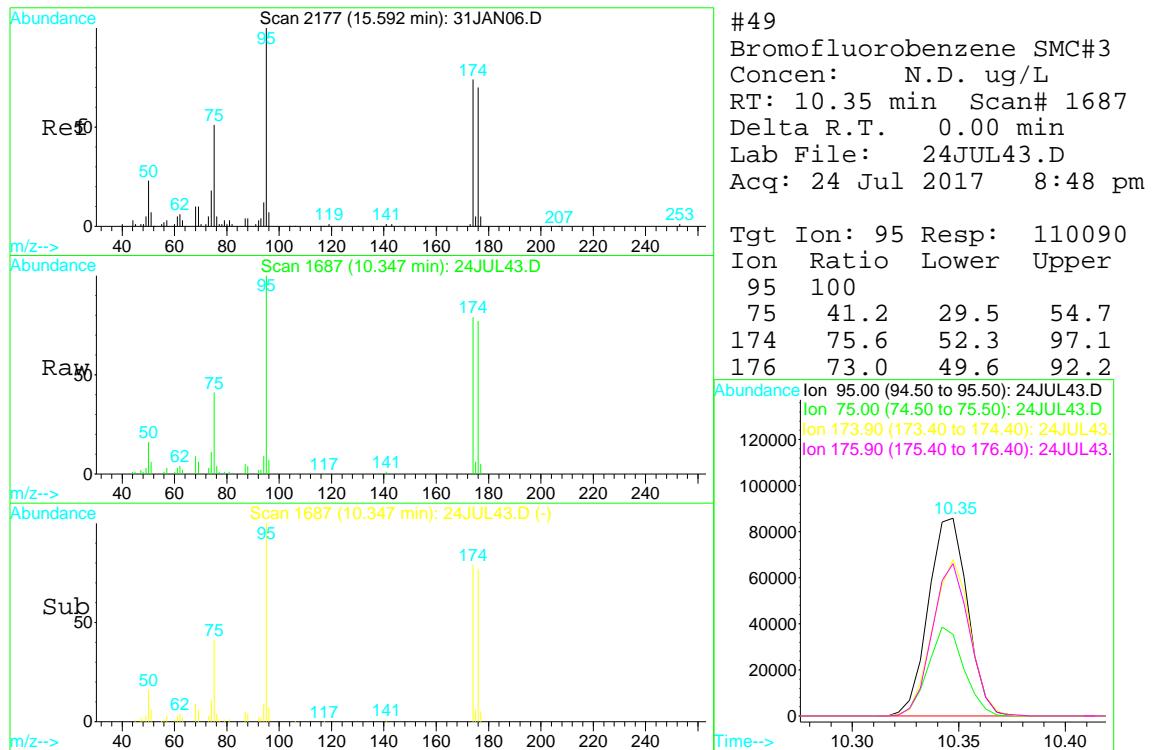
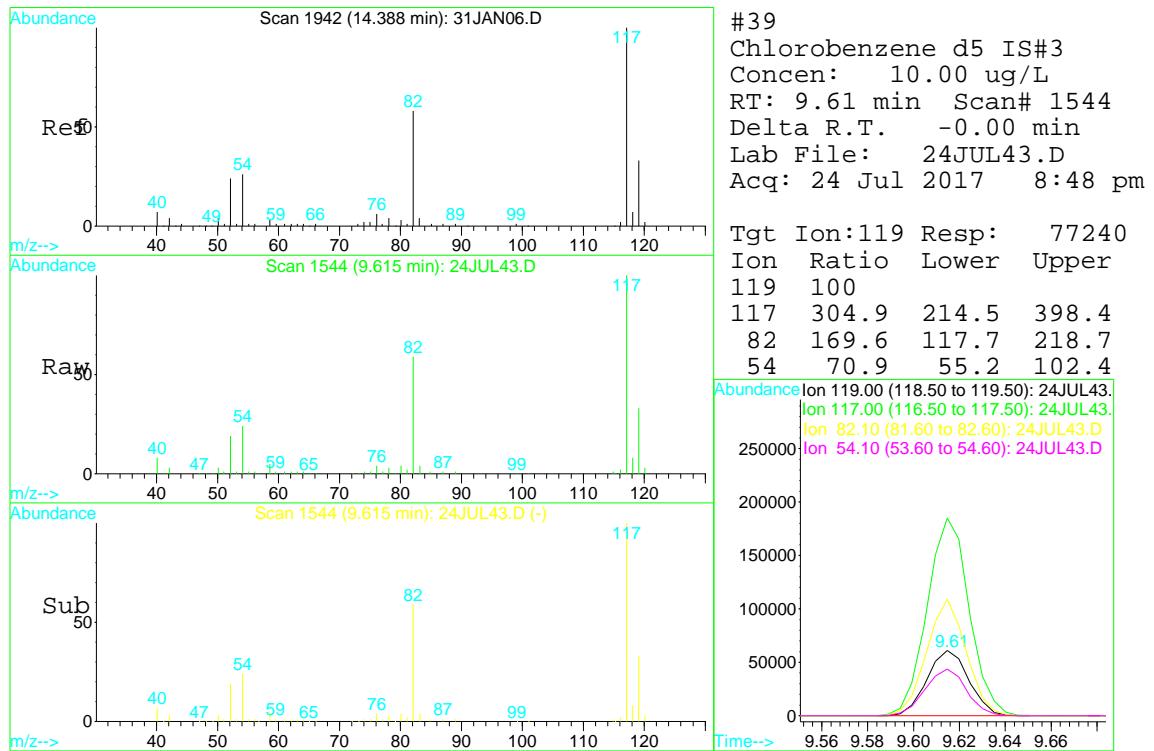


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. -0.00 min
Lab File: 24JUL43.D
Acq: 24 Jul 2017 8:48 pm



Tgt Ion: 98 Resp: 350697
Ion Ratio Lower Upper
98 100
100 69.0 49.7 92.3
70 9.8 7.3 13.7





Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL43.D Vial: 43
Acq On : 24 Jul 2017 8:48 pm Operator: MGC
Sample : 1719853-01 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:16 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

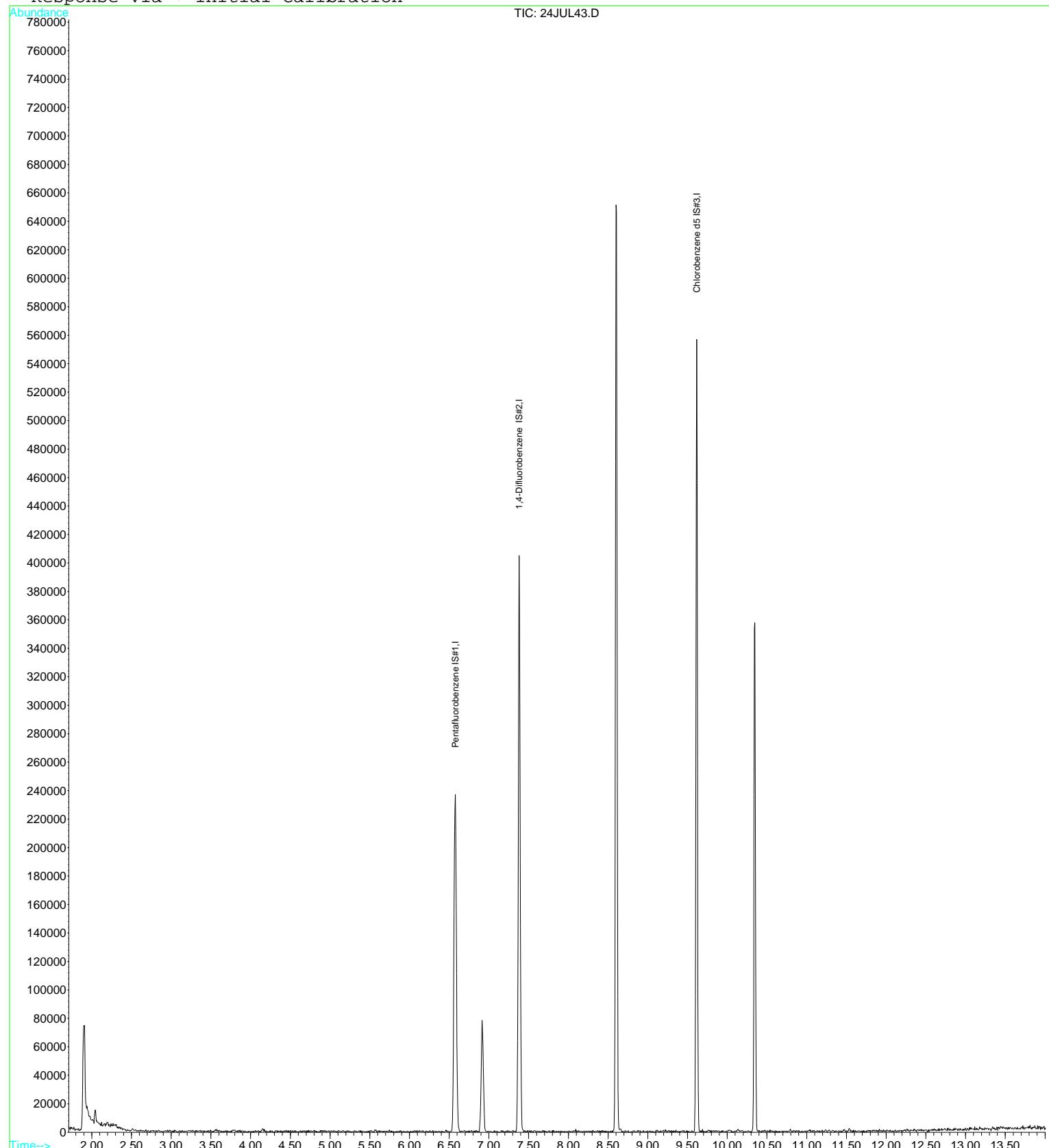
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Pentafluorobenzene IS#1	6.58	168	190274	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	291600	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	77240	10.00	ug/L	0.00

Target Compounds	Qvalue
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Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL43.D Vial: 43
Acq On : 24 Jul 2017 8:48 pm Operator: MGC
Sample : 1719853-01 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:16 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL44.D Vial: 44
 Acq On : 24 Jul 2017 9:11 pm Operator: MGC
 Sample : 1719853-02 Inst : MS-V5
 Misc : 1 ;25ML;pH=1 Multipllr: 1.00

MS Integration Params: rteint.p
 Quant Time: Jul 25 11:58 2017

Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)

Title : EPA Method 624/524.2/8260

Last Update : Thu Jul 20 11:28:22 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	184244	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.39	114	282223	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	73037	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	52085	9.68	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	96.80%
31) Toluene d8 SMC#2	8.60	98	340006	9.76	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	97.60%
49) Bromofluorobenzene SMC#3	10.35	95	108879	9.98	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	99.80%

Target Compounds

					Qvalue
43) P+m-Xylene	9.77	106	2969	0.17	ug/L # 87
44) O-Xylene	10.00	106	1261	0.08	ug/L # 77
57) 1,2,4-trimethylbenzene	10.79	105	3020	0.09	ug/L 91

(#) = qualifier out of range (m) = manual integration

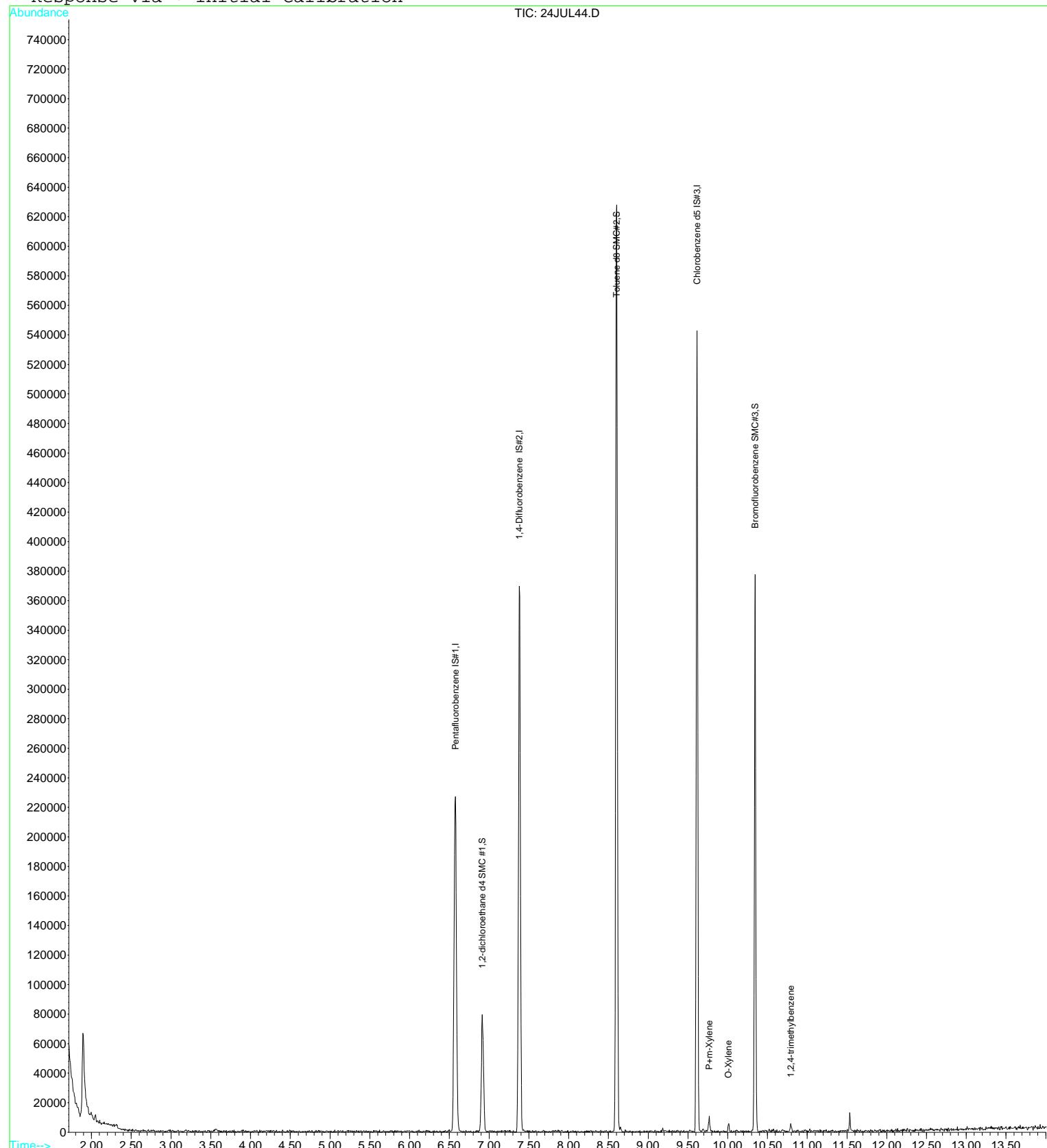
24JUL44.D 82605.M Tue Jul 25 12:06:49 2017

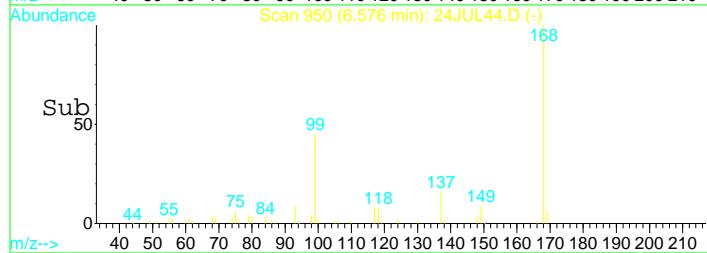
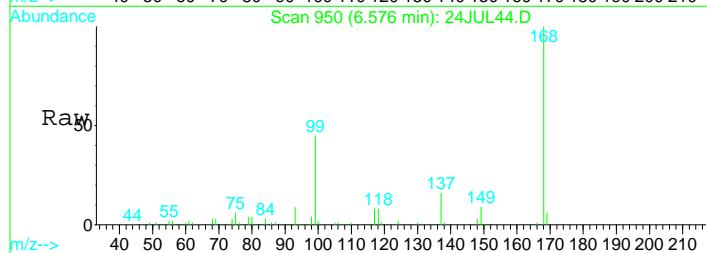
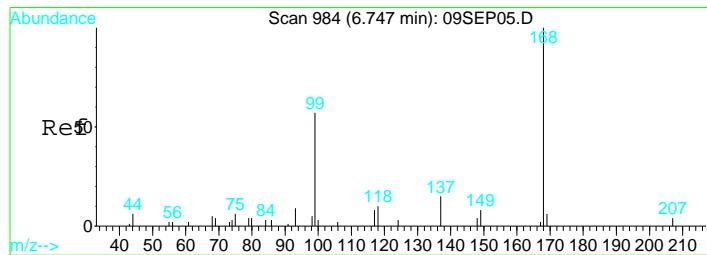
Page 1

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL44.D Vial: 44
 Acq On : 24 Jul 2017 9:11 pm Operator: MGC
 Sample : 1719853-02 Inst : MS-V5
 Misc : 1 ;25ML;pH=1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 25 11:58 2017 Quant Results File: 82605.RES

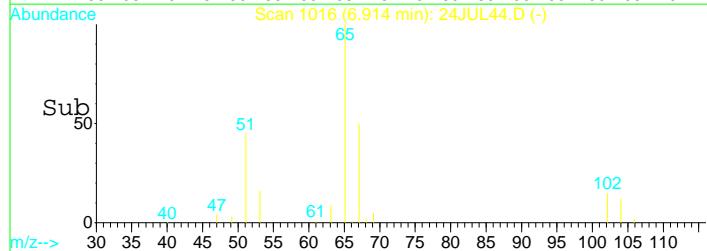
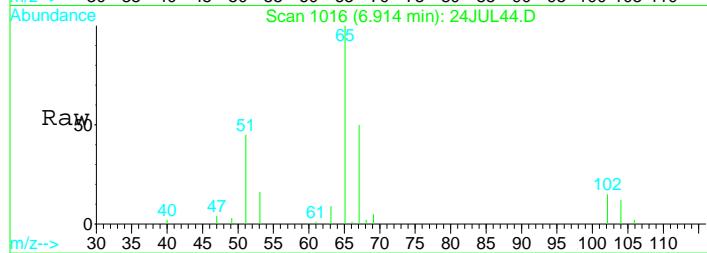
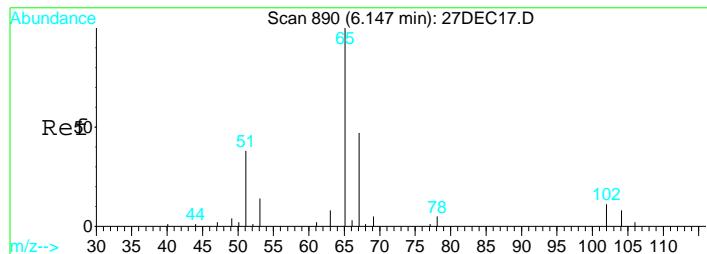
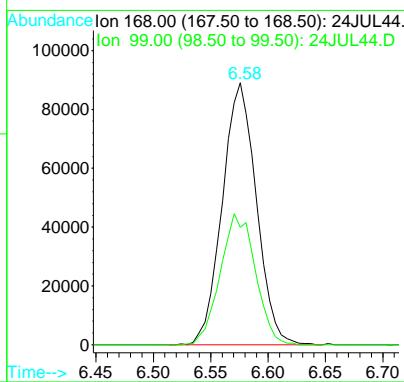
Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration





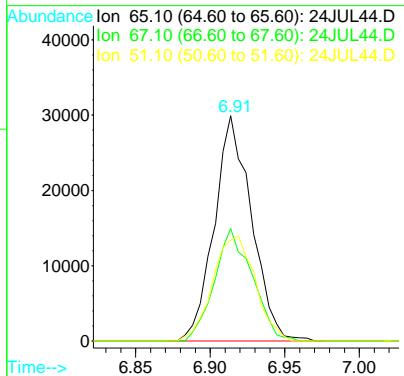
#1
 Pentafluorobenzene IS#1
 Concen: 10.00 ug/L
 RT: 6.58 min Scan# 950
 Delta R.T. -0.00 min
 Lab File: 24JUL44.D
 Acq: 24 Jul 2017 9:11 pm

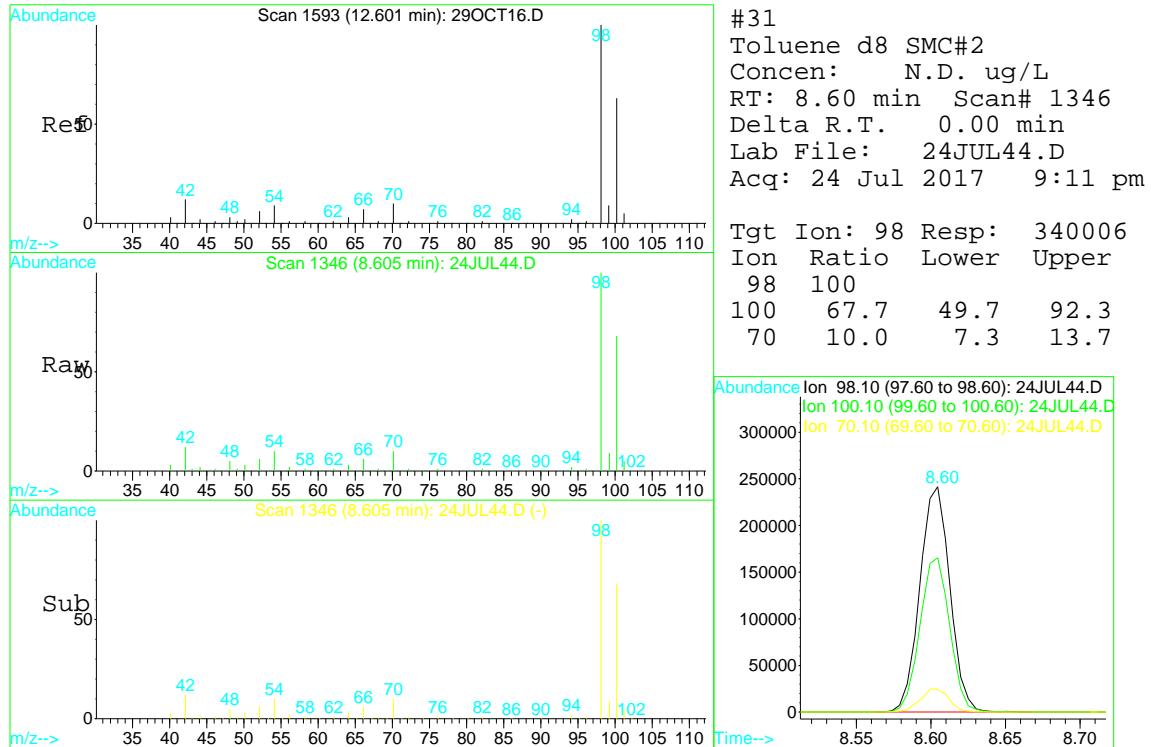
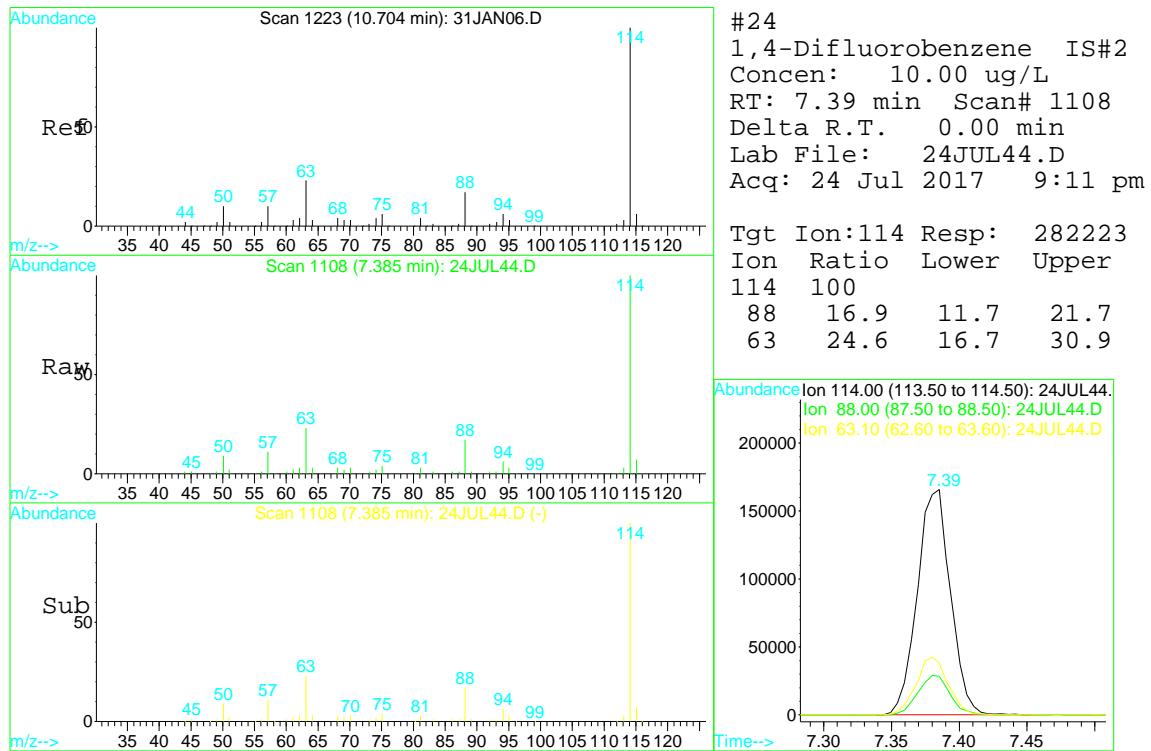
Tgt Ion: 168 Resp: 184244
 Ion Ratio Lower Upper
 168 100
 99 51.5 38.7 71.9

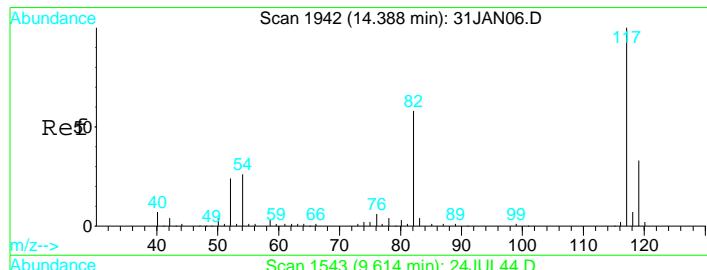


#21
 1,2-dichloroethane d4 SMC #1
 Concen: N.D. ug/L
 RT: 6.91 min Scan# 1016
 Delta R.T. -0.00 min
 Lab File: 24JUL44.D
 Acq: 24 Jul 2017 9:11 pm

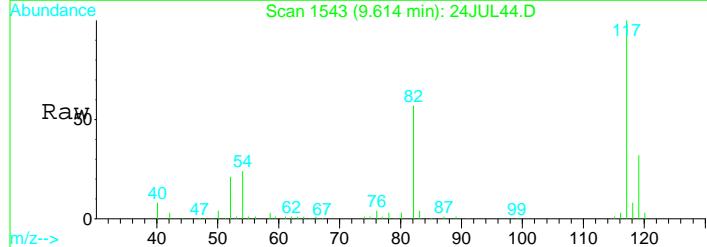
Tgt Ion: 65 Resp: 52085
 Ion Ratio Lower Upper
 65 100
 67 50.7 36.2 67.2
 51 53.0 42.0 78.0



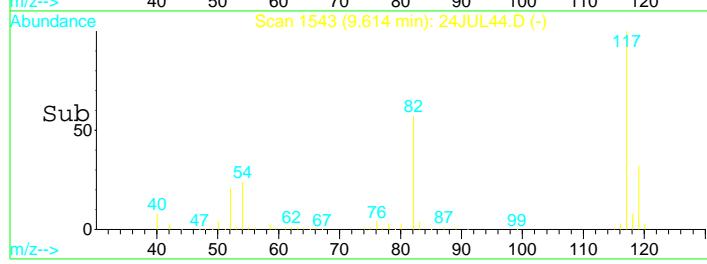




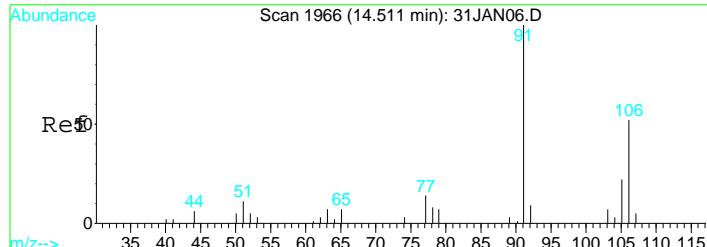
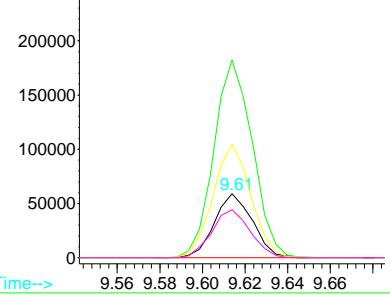
#39
 Chlorobenzene d5 IS#3
 Concen: 10.00 ug/L
 RT: 9.61 min Scan# 1543
 Delta R.T. -0.00 min
 Lab File: 24JUL44.D
 Acq: 24 Jul 2017 9:11 pm



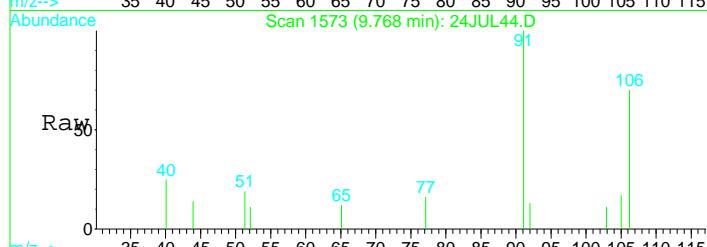
Tgt Ion:119 Resp: 73037
 Ion Ratio Lower Upper
 119 100
 117 314.0 214.5 398.4
 82 177.2 117.7 218.7
 54 76.0 55.2 102.4



Abundance
 Ion 119.00 (118.50 to 119.50): 24JUL44.
 Ion 117.00 (116.50 to 117.50): 24JUL44.
 Ion 82.10 (81.60 to 82.60): 24JUL44.D
 Ion 54.10 (53.60 to 54.60): 24JUL44.D

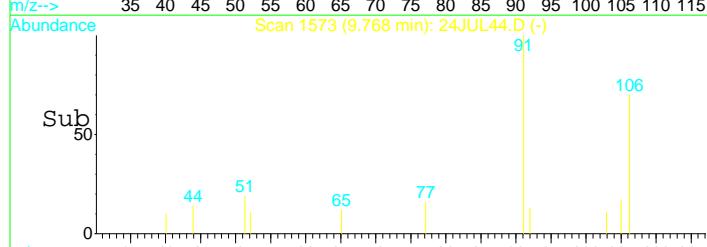
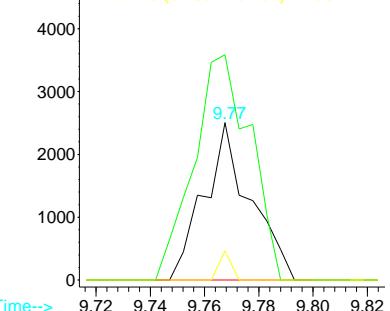


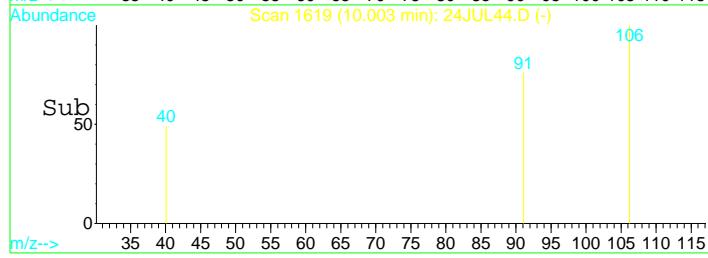
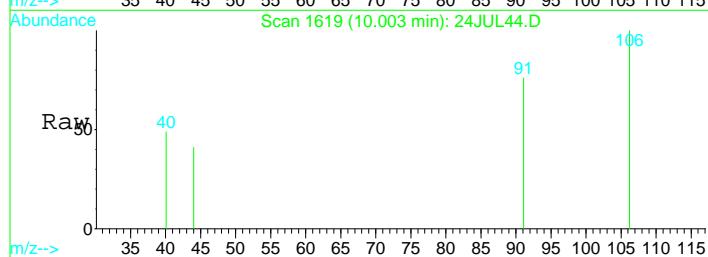
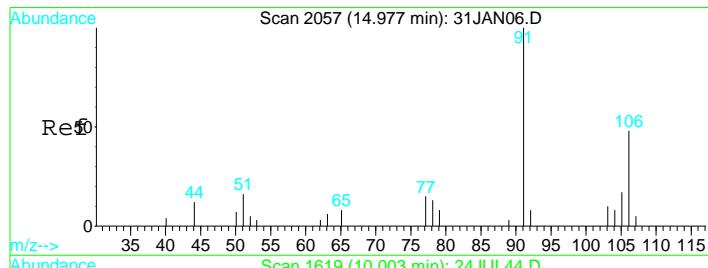
#43
 P+m-Xylene
 Concen: 0.17 ug/L
 RT: 9.77 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: 24JUL44.D
 Acq: 24 Jul 2017 9:11 pm



Tgt Ion:106 Resp: 2969
 Ion Ratio Lower Upper
 106 100
 91 174.8 135.0 250.6
 92 4.8 10.3 19.1#

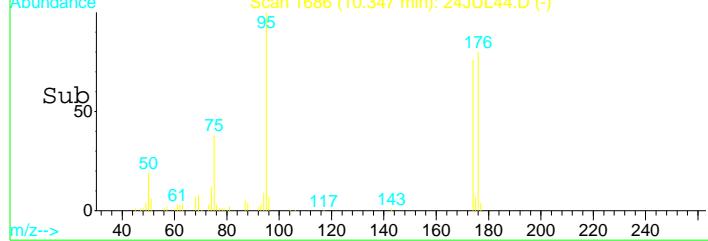
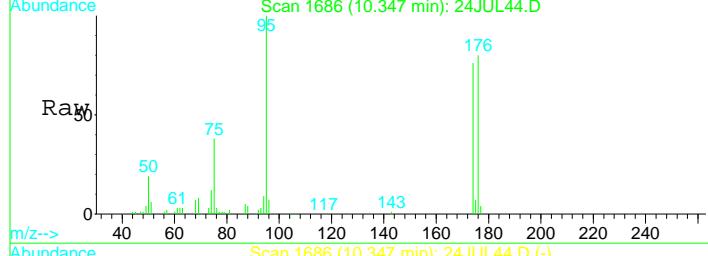
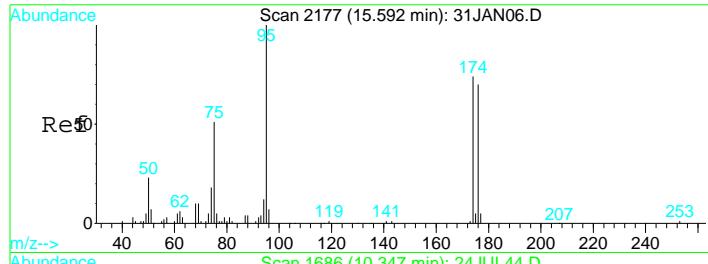
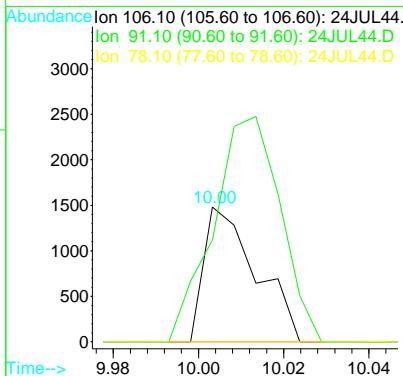
Abundance
 Ion 106.10 (105.60 to 106.60): 24JUL44.
 Ion 91.10 (90.60 to 91.60): 24JUL44.D
 Ion 92.10 (91.60 to 92.60): 24JUL44.D





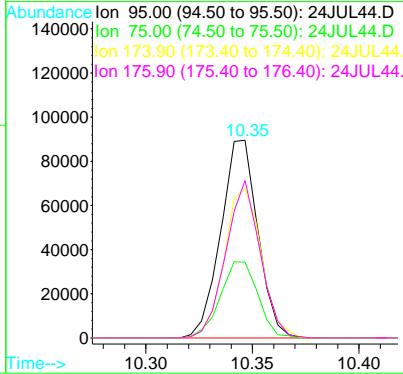
#44
O-Xylene
Concen: 0.08 ug/L
RT: 10.00 min Scan# 1619
Delta R.T. -0.01 min
Lab File: 24JUL44.D
Acq: 24 Jul 2017 9:11 pm

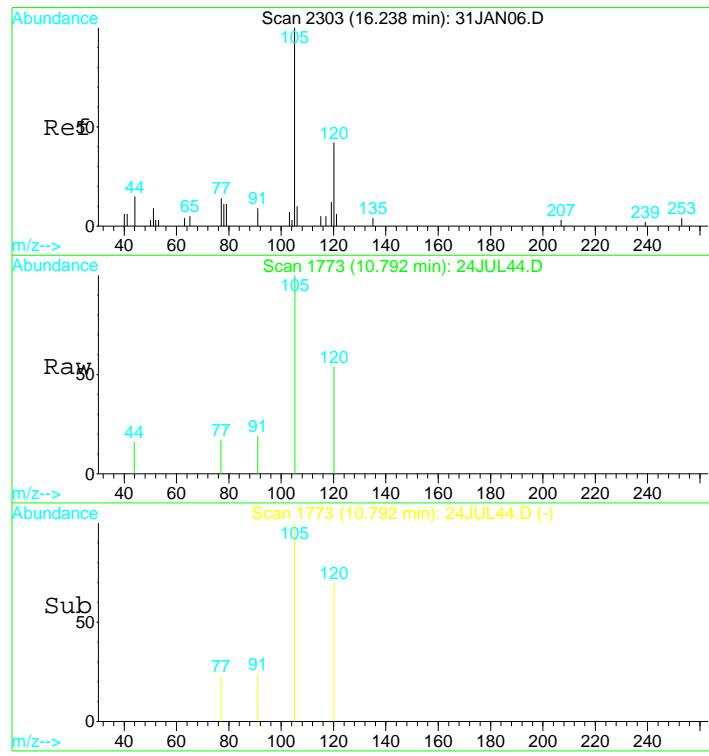
Tgt Ion: 106 Resp: 1261
Ion Ratio Lower Upper
106 100
91 213.6 154.3 286.5
78 0.0 47.1 87.5#



#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.35 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 24JUL44.D
Acq: 24 Jul 2017 9:11 pm

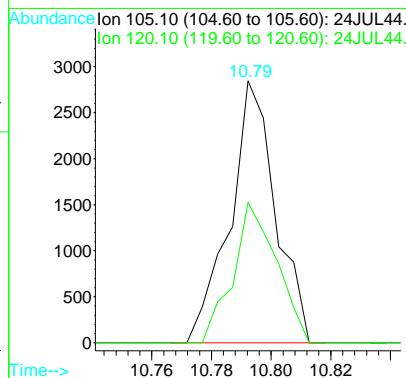
Tgt Ion: 95 Resp: 108879
Ion Ratio Lower Upper
95 100
75 39.0 29.5 54.7
174 75.4 52.3 97.1
176 73.5 49.6 92.2





#57
 1, 2, 4-trimethylbenzene
 Concen: 0.09 ug/L
 RT: 10.79 min Scan# 1773
 Delta R.T. -0.00 min
 Lab File: 24JUL44.D
 Acq: 24 Jul 2017 9:11 pm

Tgt Ion: 105 Resp: 3020
 Ion Ratio Lower Upper
 105 100
 120 51.2 31.8 59.0



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL44.D Vial: 44
Acq On : 24 Jul 2017 9:11 pm Operator: MGC
Sample : 1719853-02 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:16 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

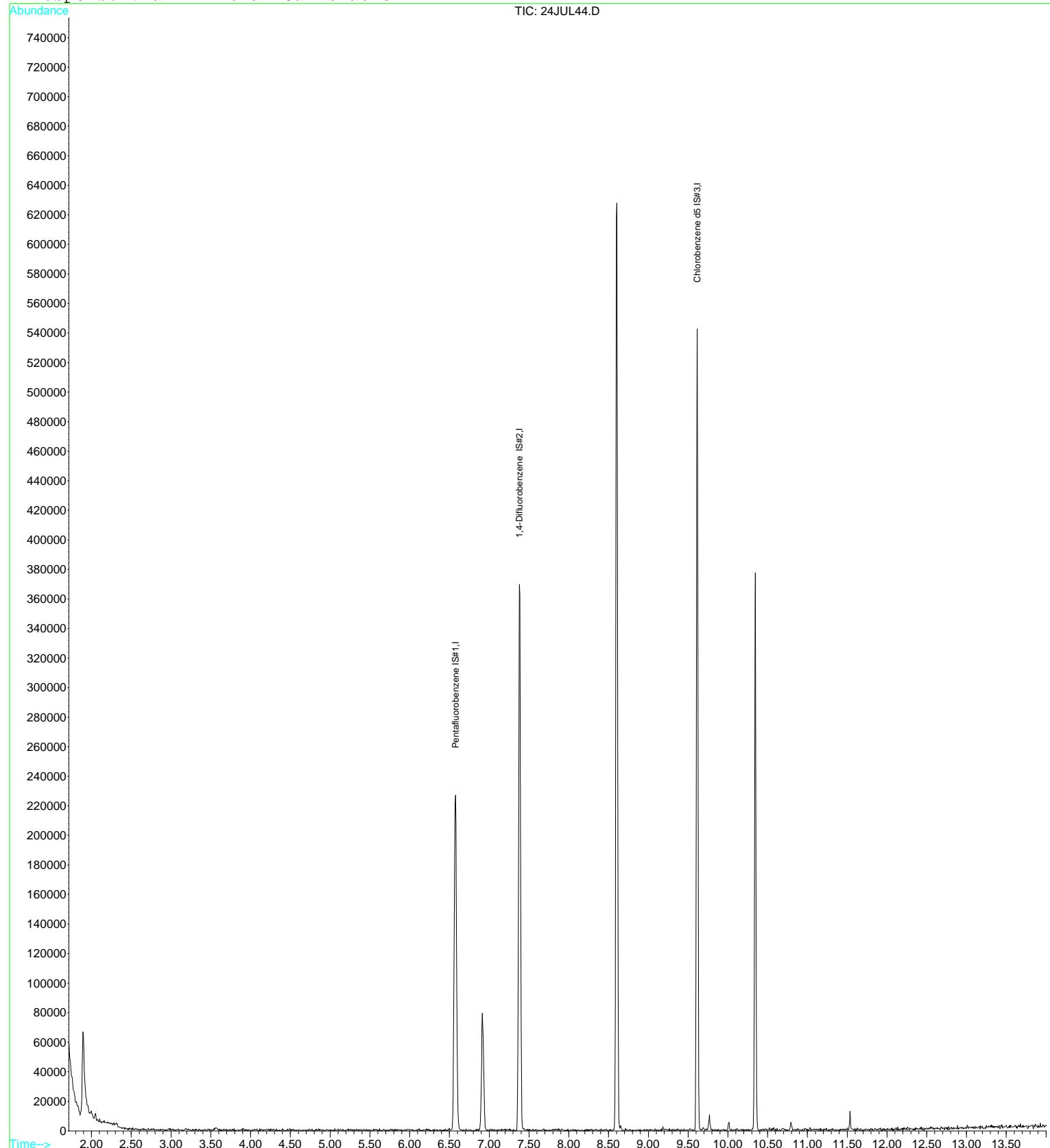
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Pentafluorobenzene IS#1	6.58	168	184244	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.39	114	282223	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	73037	10.00	ug/L	0.00

Target Compounds	Qvalue
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Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL44.D Vial: 44
Acq On : 24 Jul 2017 9:11 pm Operator: MGC
Sample : 1719853-02 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:16 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL45.D Vial: 45
 Acq On : 24 Jul 2017 9:35 pm Operator: MGC
 Sample : 1719853-03 Inst : MS-V5
 Misc : 1 ;25ML;pH=1 Multipllr: 1.00

MS Integration Params: rteint.p
 Quant Time: Jul 25 11:59 2017

Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)

Title : EPA Method 624/524.2/8260

Last Update : Thu Jul 20 11:28:22 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	180751	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	269125	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	71704	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	50530	9.57	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	95.70%
31) Toluene d8 SMC#2	8.60	98	323887	9.75	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	97.50%
49) Bromofluorobenzene SMC#3	10.34	95	107121	10.01	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	100.10%

Target Compounds

					Qvalue
43) P+m-Xylene	9.77	106	1433	0.08	ug/L # 81
44) O-Xylene	10.01	106	2048	0.13	ug/L # 64
47) Isopropylbenzene	10.23	105	10500	0.26	ug/L 93
56) tert-butylbenzene	10.76	119	11708	0.35	ug/L 93
58) sec-butylbenzene	10.89	105	10466	0.23	ug/L # 1
68) naphthalene	12.26	128	2720	0.24	ug/L 100

(#) = qualifier out of range (m) = manual integration

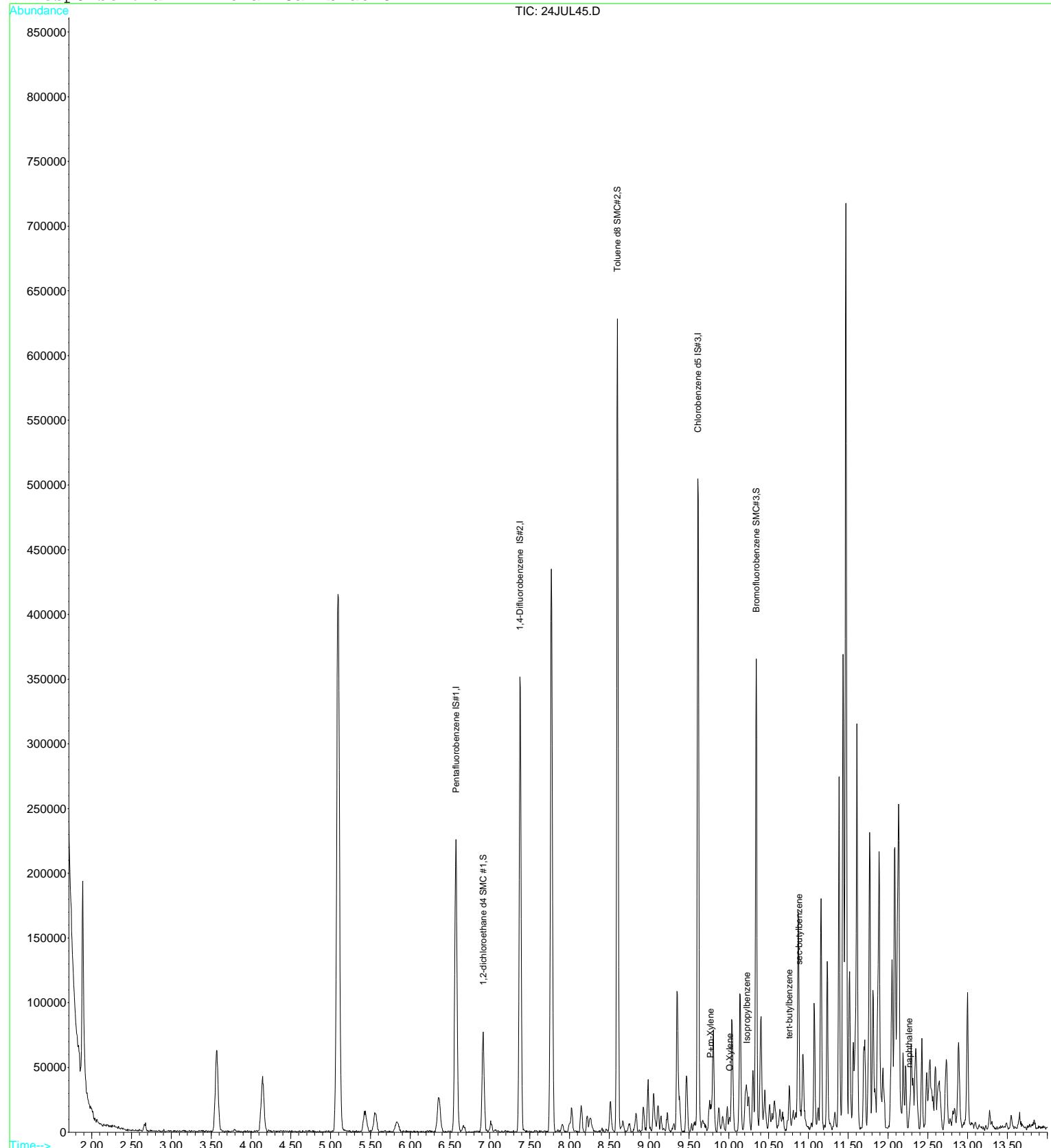
24JUL45.D 82605.M Tue Jul 25 12:06:51 2017

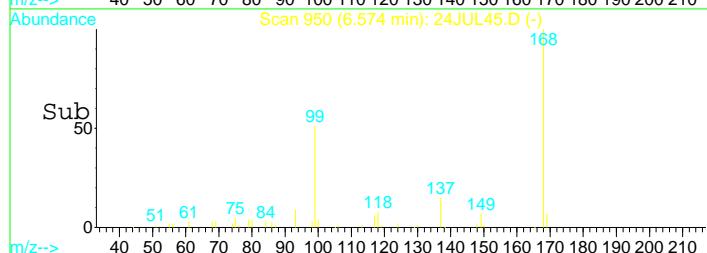
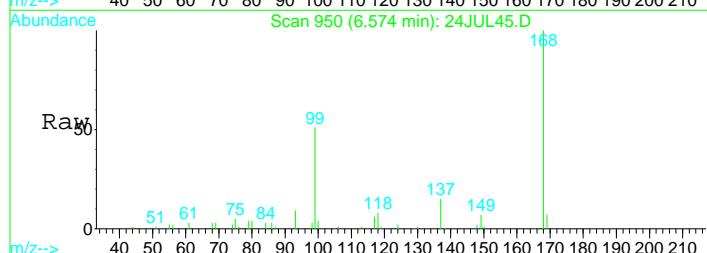
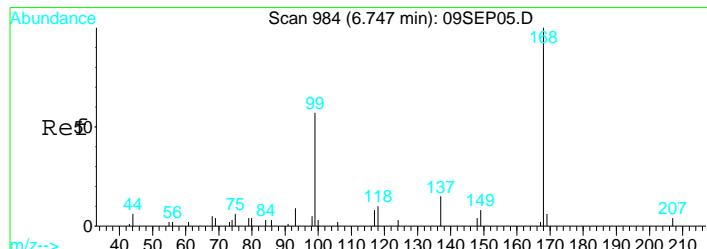
Page 1

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL45.D Vial: 45
 Acq On : 24 Jul 2017 9:35 pm Operator: MGC
 Sample : 1719853-03 Inst : MS-V5
 Misc : 1 ;25ML;pH=1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 25 11:59 2017 Quant Results File: 82605.RES

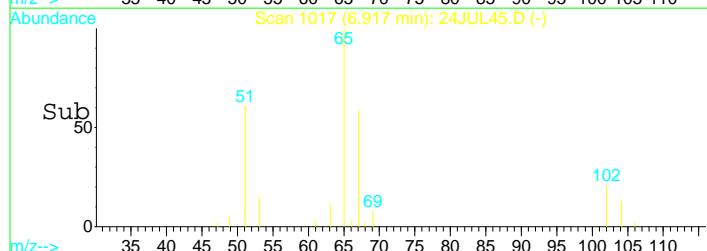
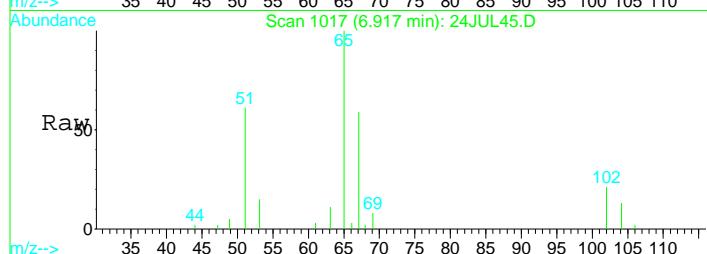
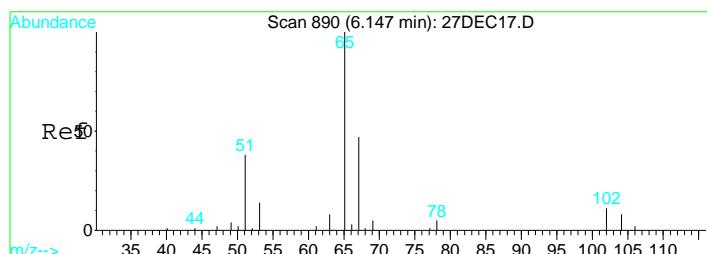
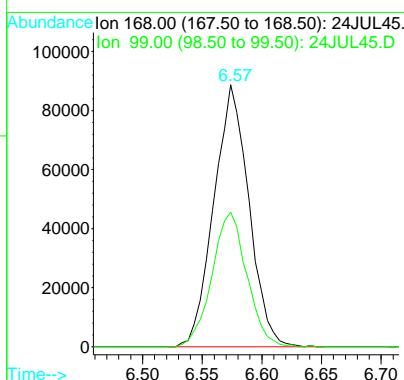
Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration





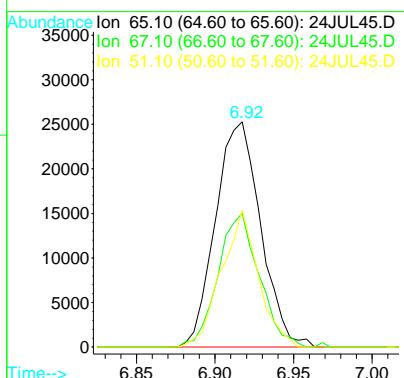
#1
 Pentafluorobenzene IS#1
 Concen: 10.00 ug/L
 RT: 6.57 min Scan# 950
 Delta R.T. -0.00 min
 Lab File: 24JUL45.D
 Acq: 24 Jul 2017 9:35 pm

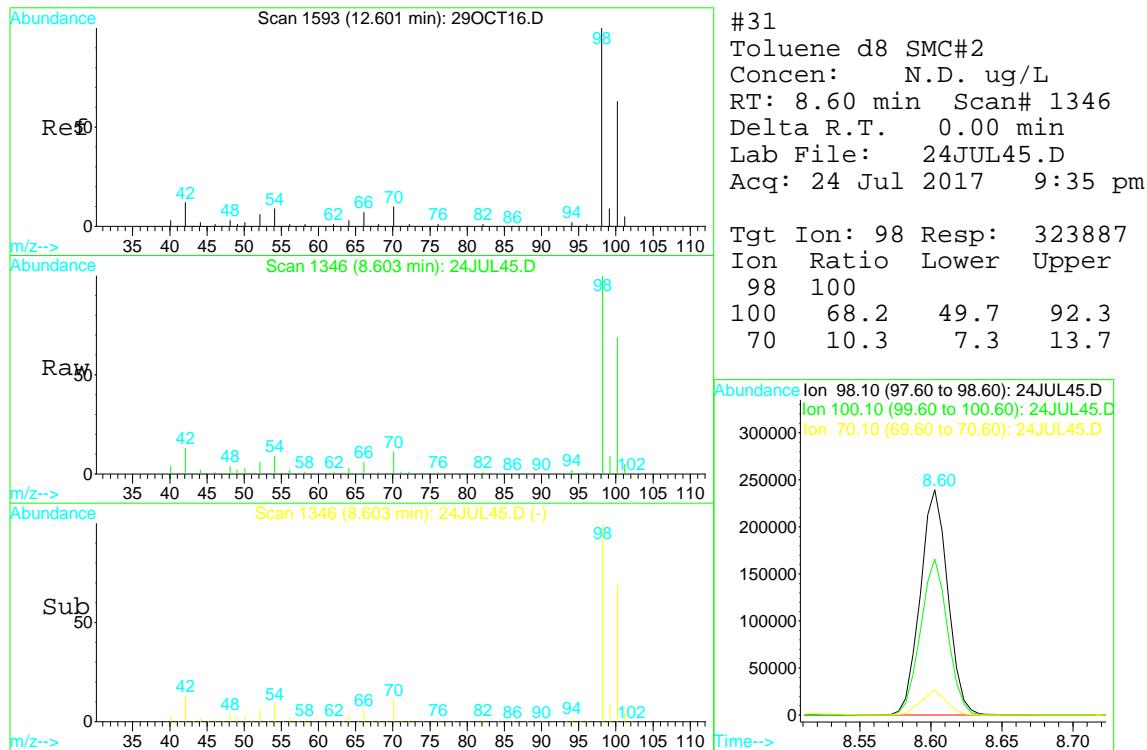
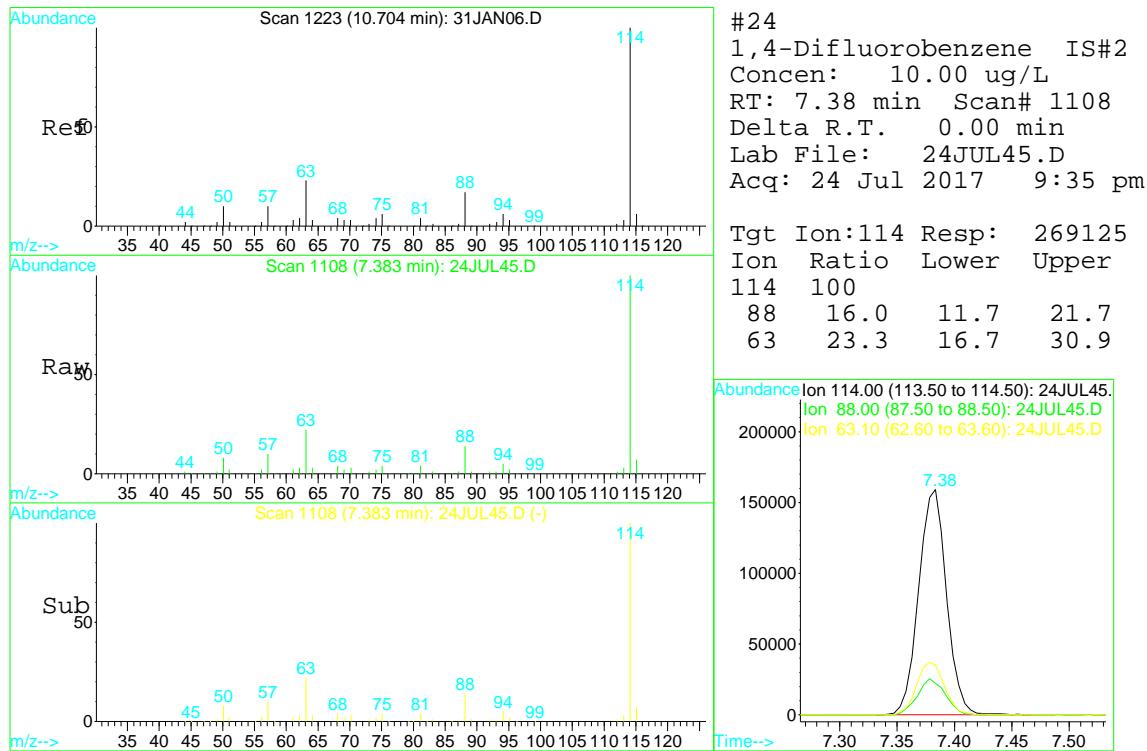
Tgt Ion: 168 Resp: 180751
 Ion Ratio Lower Upper
 168 100
 99 51.2 38.7 71.9

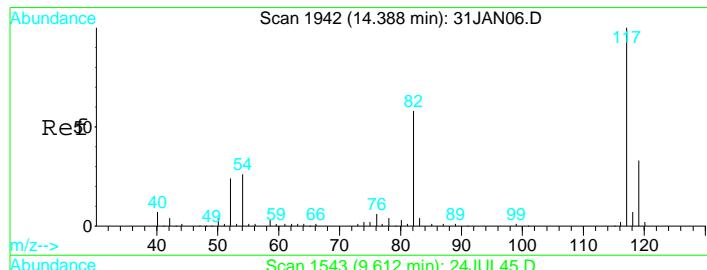


#21
 1,2-dichloroethane d4 SMC #1
 Concen: N.D. ug/L
 RT: 6.92 min Scan# 1017
 Delta R.T. 0.00 min
 Lab File: 24JUL45.D
 Acq: 24 Jul 2017 9:35 pm

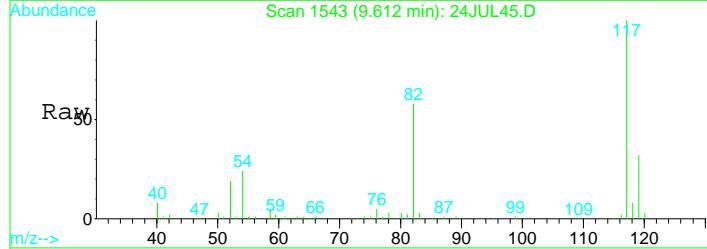
Tgt Ion: 65 Resp: 50530
 Ion Ratio Lower Upper
 65 100
 67 54.2 36.2 67.2
 51 50.1 42.0 78.0



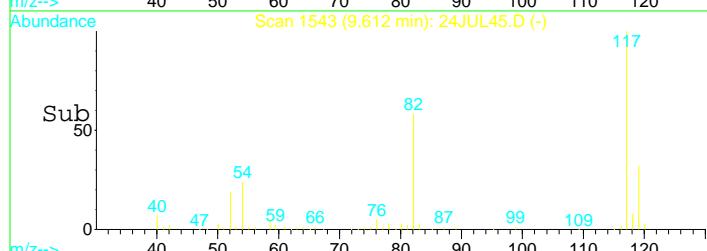




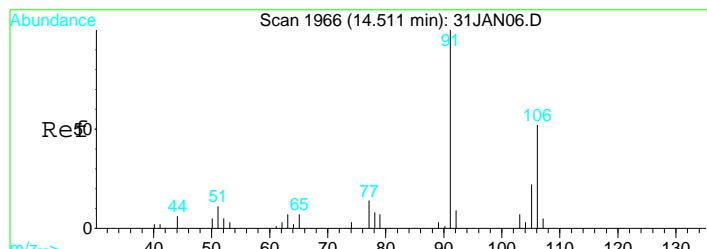
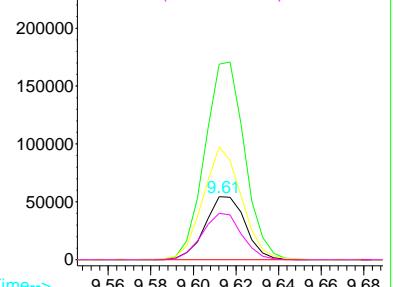
#39
 Chlorobenzene d5 IS#3
 Concen: 10.00 ug/L
 RT: 9.61 min Scan# 1543
 Delta R.T. -0.00 min
 Lab File: 24JUL45.D
 Acq: 24 Jul 2017 9:35 pm



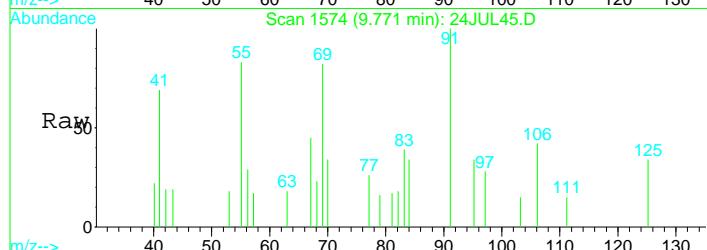
Tgt Ion:119 Resp: 71704
 Ion Ratio Lower Upper
 119 100
 117 309.3 214.5 398.4
 82 172.1 117.7 218.7
 54 72.8 55.2 102.4



Abundance
 Ion 119.00 (118.50 to 119.50): 24JUL45.
 Ion 117.00 (116.50 to 117.50): 24JUL45.
 Ion 82.10 (81.60 to 82.60): 24JUL45.D
 Ion 54.10 (53.60 to 54.60): 24JUL45.D

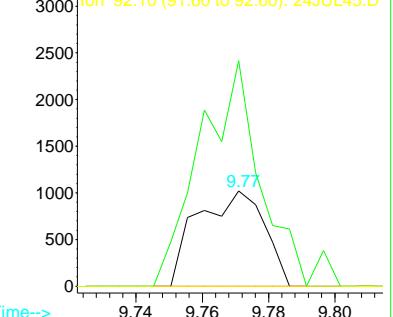


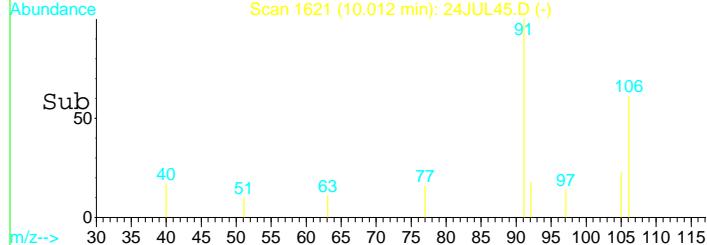
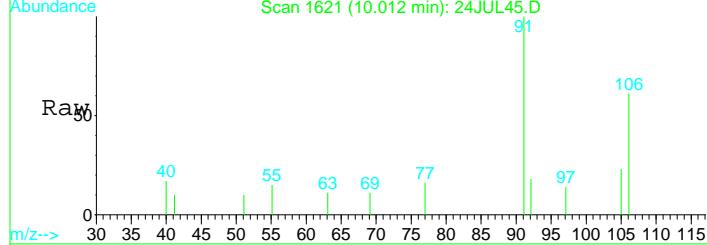
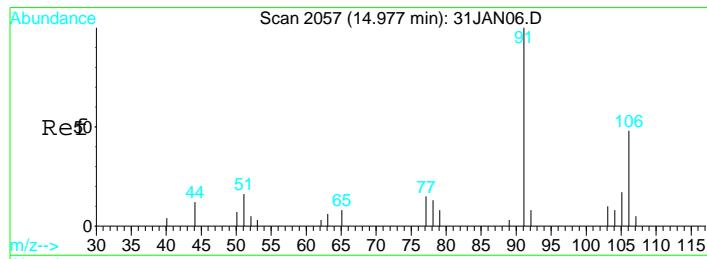
#43
 P+m-Xylene
 Concen: 0.08 ug/L
 RT: 9.77 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: 24JUL45.D
 Acq: 24 Jul 2017 9:35 pm



Tgt Ion:106 Resp: 1433
 Ion Ratio Lower Upper
 106 100
 91 218.5 135.0 250.6
 92 0.0 10.3 19.1#

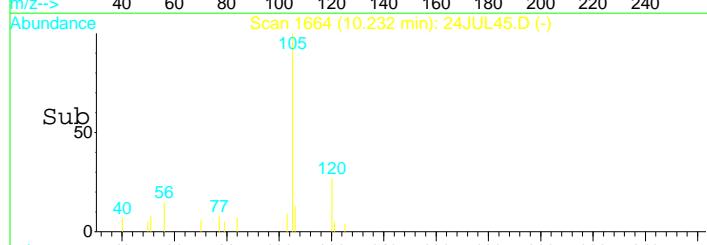
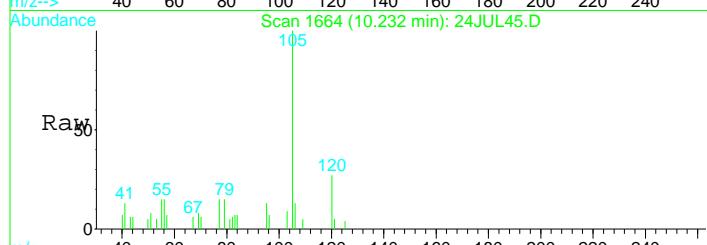
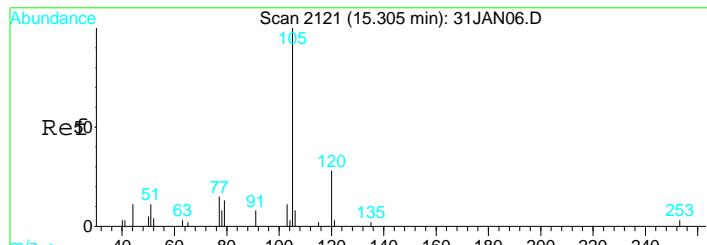
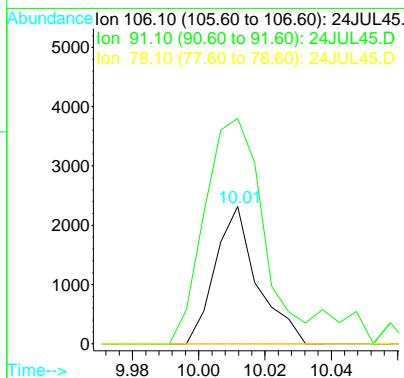
Abundance
 Ion 106.10 (105.60 to 106.60): 24JUL45.
 Ion 91.10 (90.60 to 91.60): 24JUL45.D
 Ion 92.10 (91.60 to 92.60): 24JUL45.D





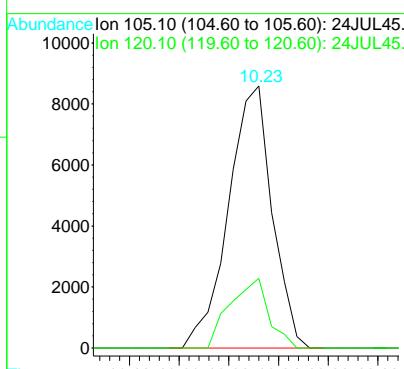
#44
O-Xylene
Concen: 0.13 ug/L
RT: 10.01 min Scan# 1621
Delta R.T. 0.00 min
Lab File: 24JUL45.D
Acq: 24 Jul 2017 9:35 pm

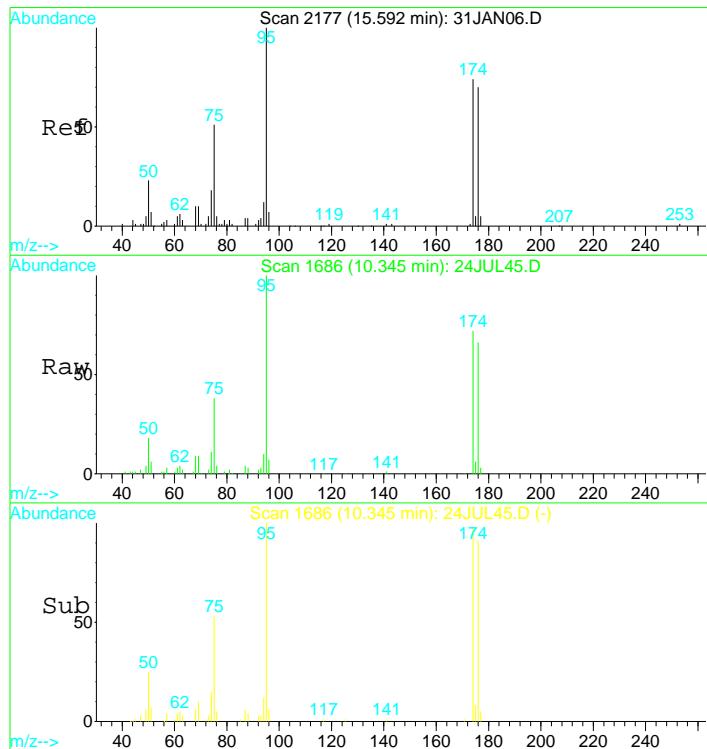
Tgt Ion: 106 Resp: 2048
Ion Ratio Lower Upper
106 100
91 254.5 154.3 286.5
78 0.0 47.1 87.5#



#47
Isopropylbenzene
Concen: 0.26 ug/L
RT: 10.23 min Scan# 1664
Delta R.T. 0.00 min
Lab File: 24JUL45.D
Acq: 24 Jul 2017 9:35 pm

Tgt Ion: 105 Resp: 10500
Ion Ratio Lower Upper
105 100
120 23.5 19.2 35.6

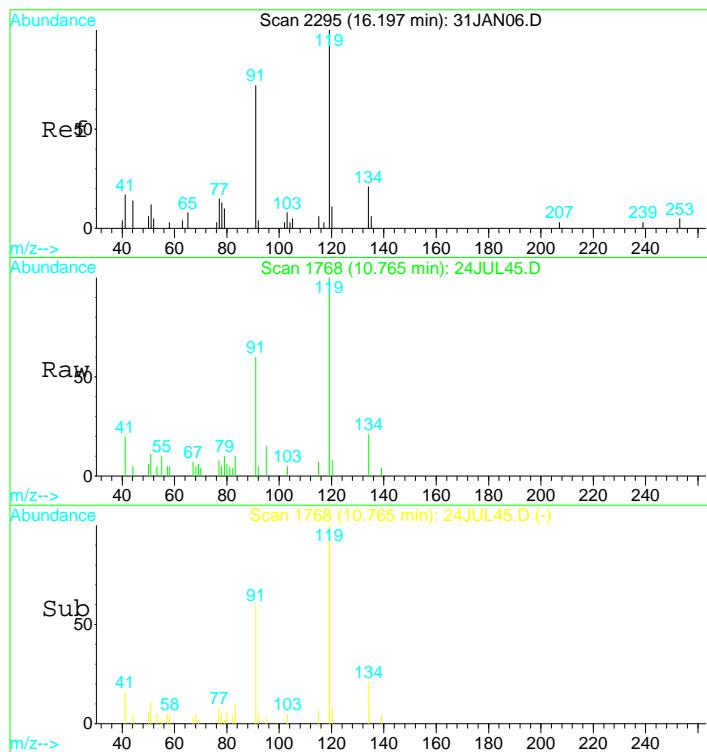
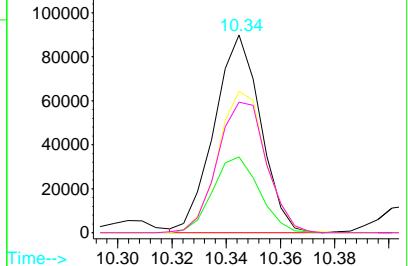




#49
 Bromofluorobenzene SMC#3
 Concen: Below ug/L
 RT: 10.34 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: 24JUL45.D
 Acq: 24 Jul 2017 9:35 pm

Tgt Ion: 95 Resp: 107121
 Ion Ratio Lower Upper
 95 100
 75 38.5 29.5 54.7
 174 73.1 52.3 97.1
 176 70.3 49.6 92.2

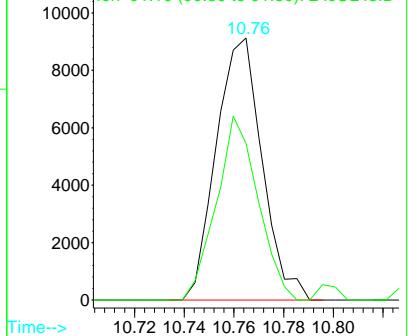
Abundance
 Ion 95.00 (94.50 to 95.50): 24JUL45.D
 140000
 Ion 75.00 (74.50 to 75.50): 24JUL45.D
 Ion 173.90 (173.40 to 174.40): 24JUL45.D
 Ion 175.90 (175.40 to 176.40): 24JUL45.D

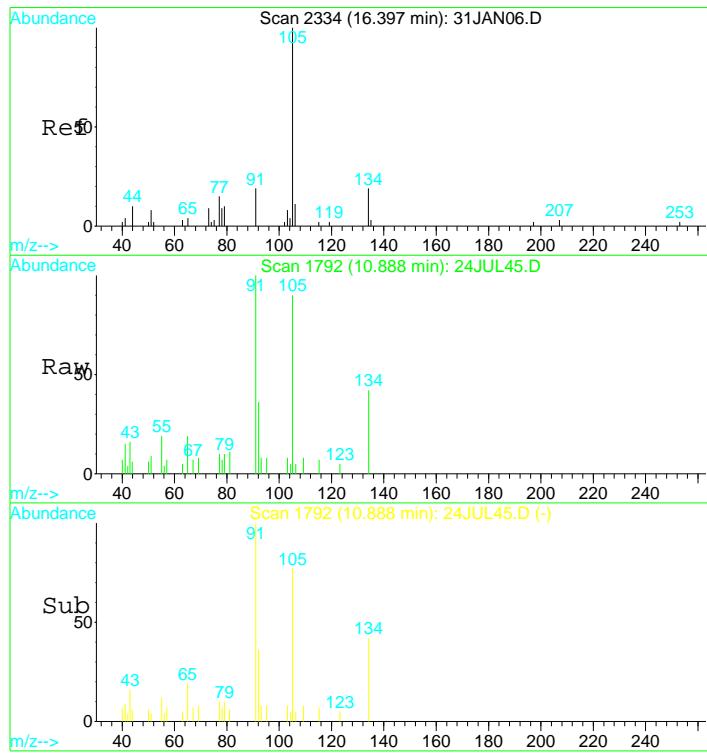


#56
 tert-butylbenzene
 Concen: 0.35 ug/L
 RT: 10.76 min Scan# 1768
 Delta R.T. 0.00 min
 Lab File: 24JUL45.D
 Acq: 24 Jul 2017 9:35 pm

Tgt Ion: 119 Resp: 11708
 Ion Ratio Lower Upper
 119 100
 91 63.6 48.7 90.5

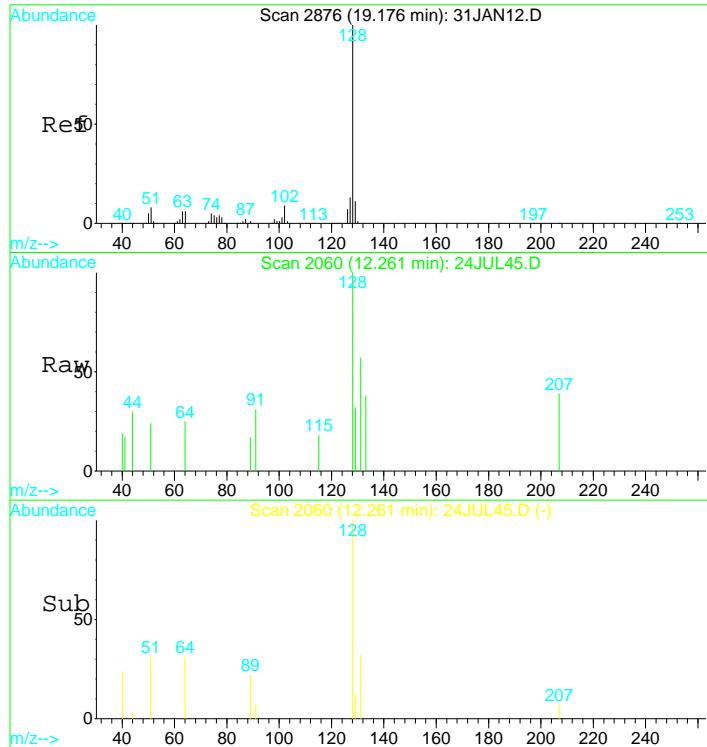
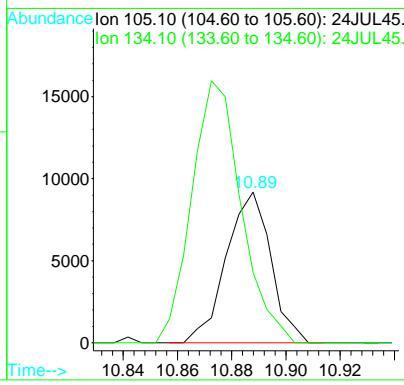
Abundance
 Ion 119.10 (118.60 to 119.60): 24JUL45.D
 Ion 91.10 (90.60 to 91.60): 24JUL45.D





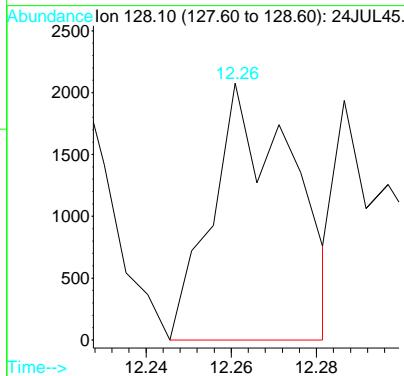
#58
sec-butylbenzene
Concen: 0.23 ug/L
RT: 10.89 min Scan# 1792
Delta R.T. 0.00 min
Lab File: 24JUL45.D
Acq: 24 Jul 2017 9:35 pm

Tgt Ion:105 Resp: 10466
Ion Ratio Lower Upper
105 100
134 193.3 14.4 26.7#



#68
naphthalene
Concen: 0.24 ug/L
RT: 12.26 min Scan# 2060
Delta R.T. -0.00 min
Lab File: 24JUL45.D
Acq: 24 Jul 2017 9:35 pm

Tgt Ion:128 Resp: 2720



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL45.D Vial: 45
Acq On : 24 Jul 2017 9:35 pm Operator: MGC
Sample : 1719853-03 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00

MS Integration Params: rteint.p
Quant Time: Jul 25 12:17 2017

Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)

Title : EPA Method 624/8260

Last Update : Fri Jul 21 04:19:15 2017

Response via : Initial Calibration

DataAcq Meth : 82605

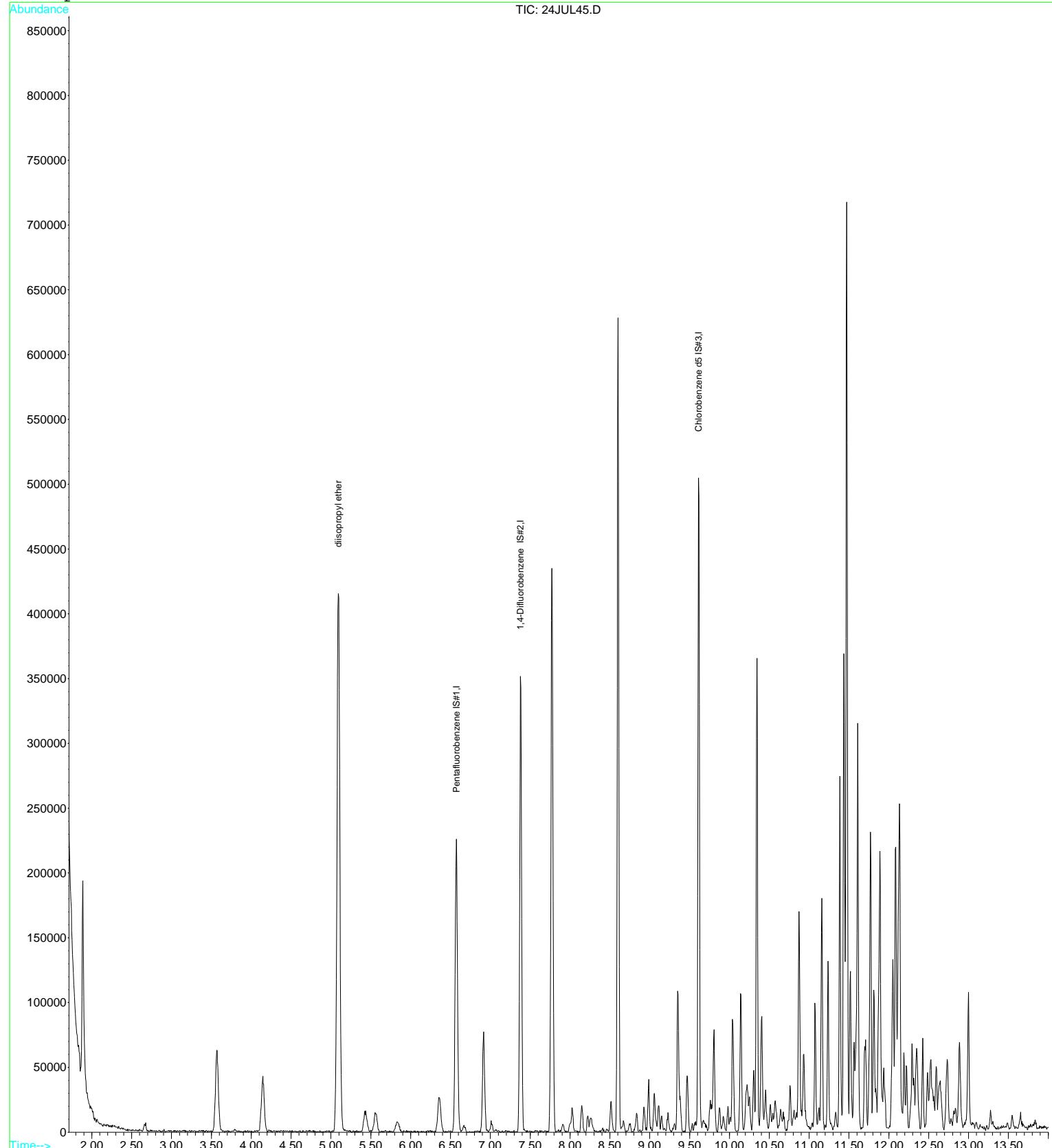
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Pentafluorobenzene IS#1	6.57	168	180751	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	269125	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	71704	10.00	ug/L	0.00

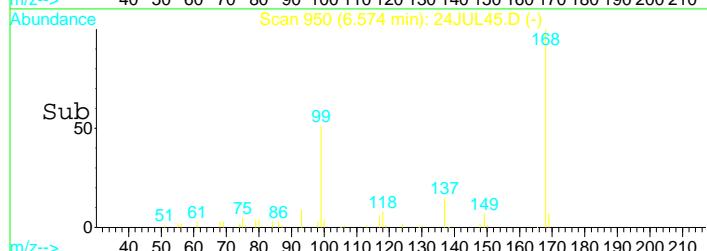
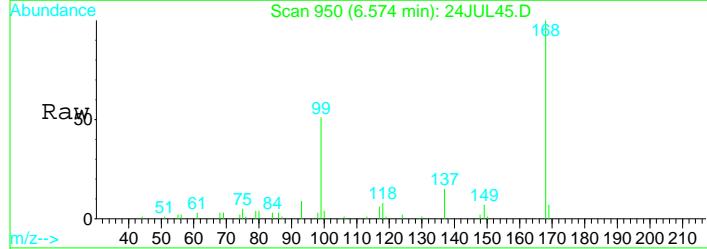
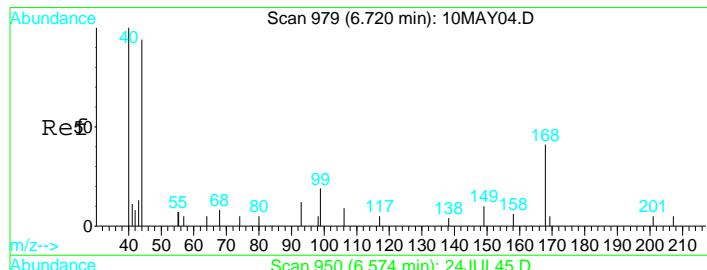
Target Compounds	Qvalue
17) diisopropyl ether	98

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL45.D Vial: 45
Acq On : 24 Jul 2017 9:35 pm Operator: MGC
Sample : 1719853-03 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:17 2017 Quant Results File: 82605X.RES

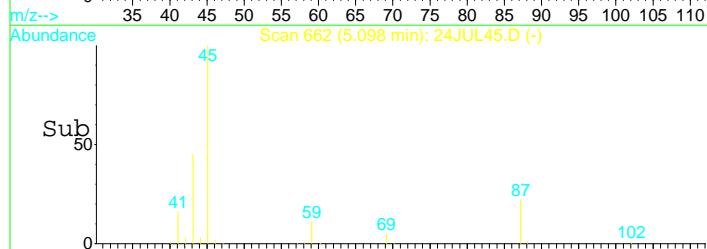
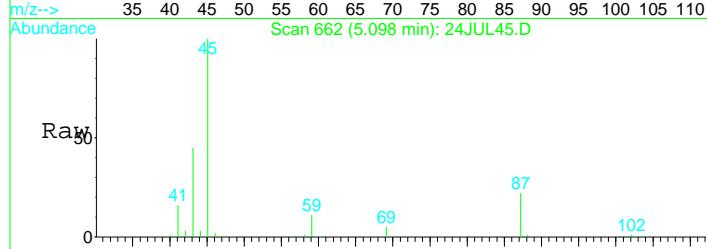
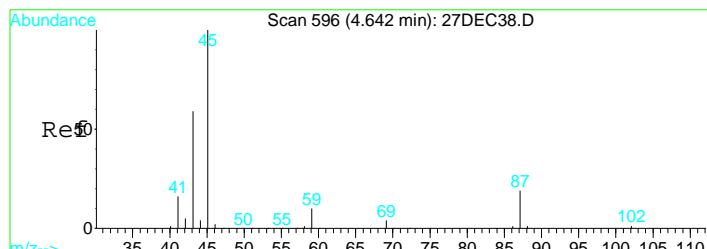
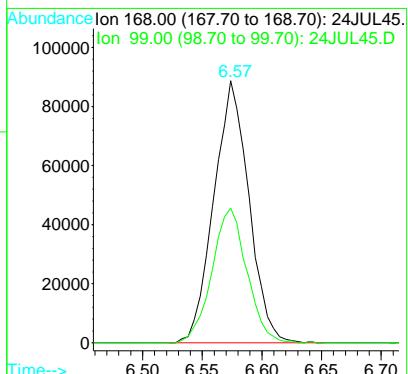
Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration





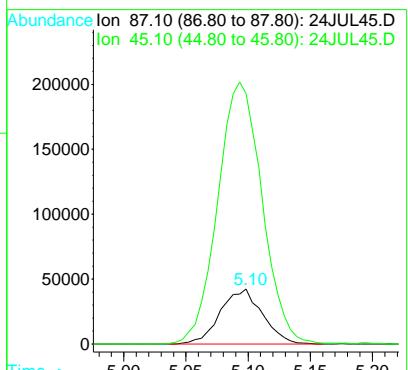
#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 24JUL45.D
Acq: 24 Jul 2017 9:35 pm

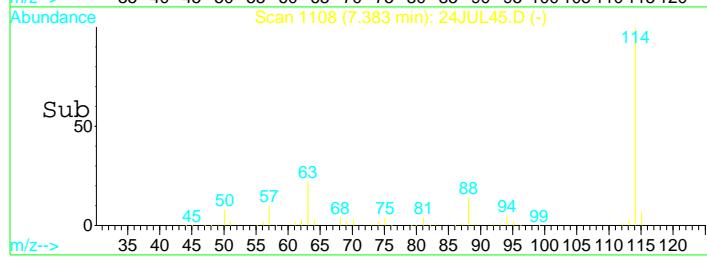
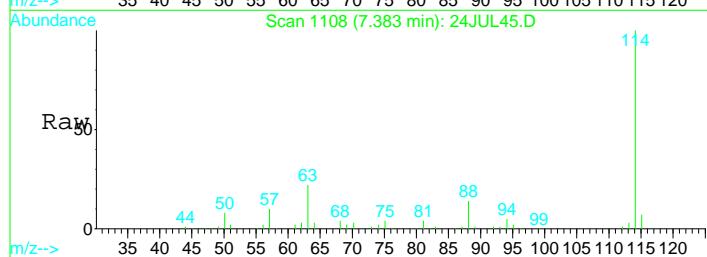
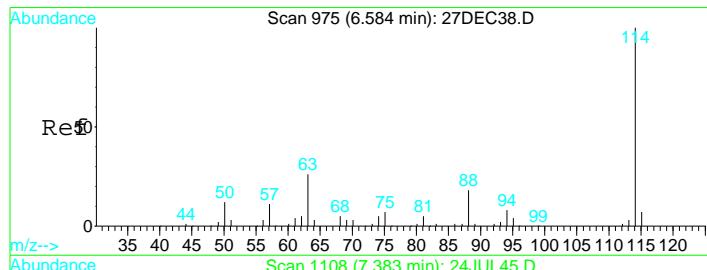
Tgt Ion: 168 Resp: 180751
Ion Ratio Lower Upper
168 100
99 51.2 36.1 67.1



#17
diisopropyl ether
Concen: 14.74 ug/L
RT: 5.10 min Scan# 662
Delta R.T. 0.00 min
Lab File: 24JUL45.D
Acq: 24 Jul 2017 9:35 pm

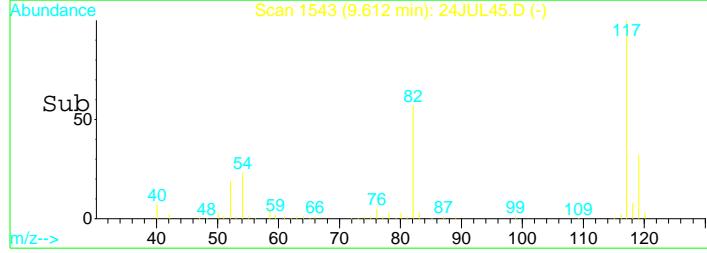
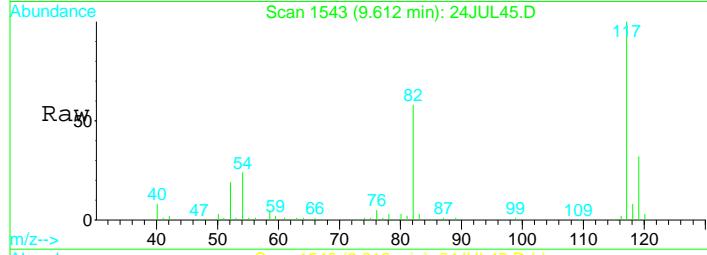
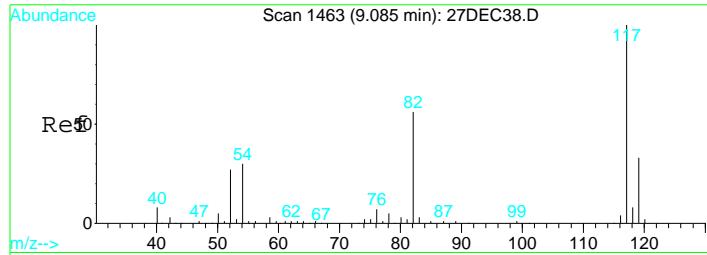
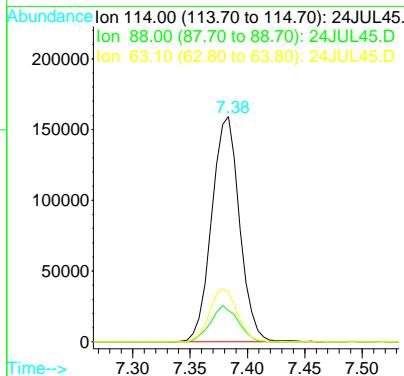
Tgt Ion: 87 Resp: 99545
Ion Ratio Lower Upper
87 100
45 503.6 349.1 648.3





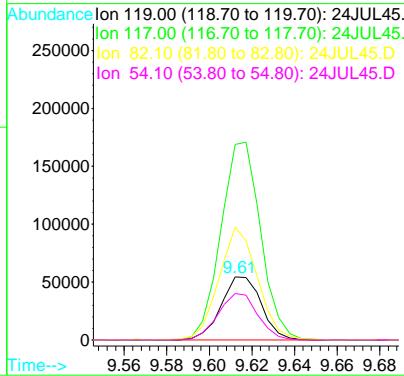
#29
 1, 4-Difluorobenzene IS#2
 Concen: 10.00 ug/L
 RT: 7.38 min Scan# 1108
 Delta R.T. 0.00 min
 Lab File: 24JUL45.D
 Acq: 24 Jul 2017 9:35 pm

Tgt Ion:114 Resp: 269125
 Ion Ratio Lower Upper
 114 100
 88 16.0 11.1 20.7
 63 23.3 16.4 30.4



#36
 Chlorobenzene d5 IS#3
 Concen: 10.00 ug/L
 RT: 9.61 min Scan# 1543
 Delta R.T. -0.00 min
 Lab File: 24JUL45.D
 Acq: 24 Jul 2017 9:35 pm

Tgt Ion:119 Resp: 71704
 Ion Ratio Lower Upper
 119 100
 117 309.3 217.1 403.3
 82 172.1 122.7 227.9
 54 72.8 55.2 102.6



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL46.D Vial: 46
 Acq On : 24 Jul 2017 9:58 pm Operator: MGC
 Sample : 1719853-04 Inst : MS-V5
 Misc : 1 ;25ML;pH=1 Multipllr: 1.00

MS Integration Params: rteint.p
 Quant Time: Jul 25 11:59 2017

Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)

Title : EPA Method 624/524.2/8260

Last Update : Thu Jul 20 11:28:22 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	184146	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	284255	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	74961	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	52512	9.76	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	97.60%
31) Toluene d8 SMC#2	8.60	98	337346	9.61	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	96.10%
49) Bromofluorobenzene SMC#3	10.34	95	107051	9.56	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	95.60%

Target Compounds					Qvalue	
43) P+m-Xylene	9.77	106	1556	0.09	ug/L	# 71

(#) = qualifier out of range (m) = manual integration

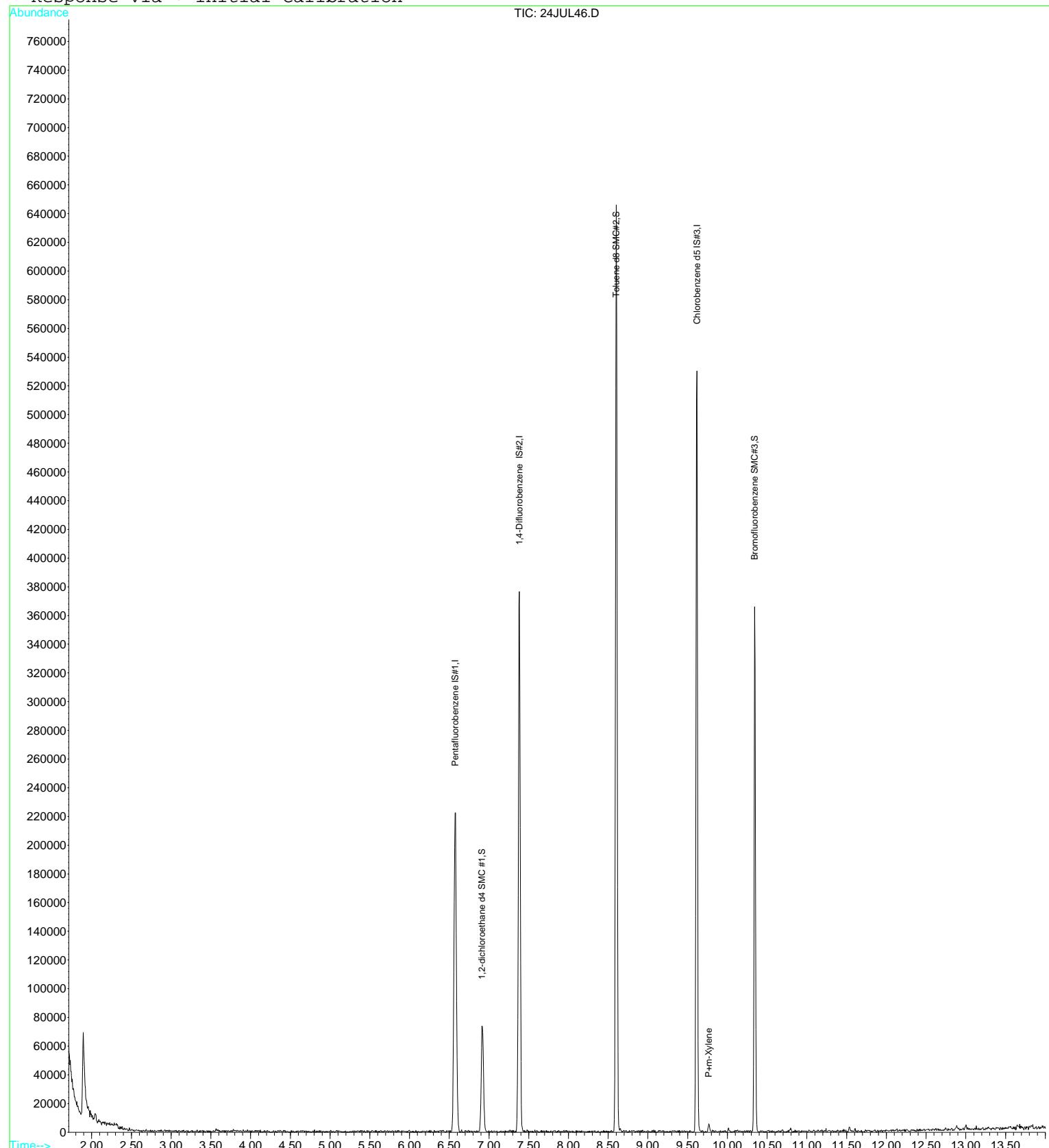
24JUL46.D 82605.M Tue Jul 25 12:06:52 2017

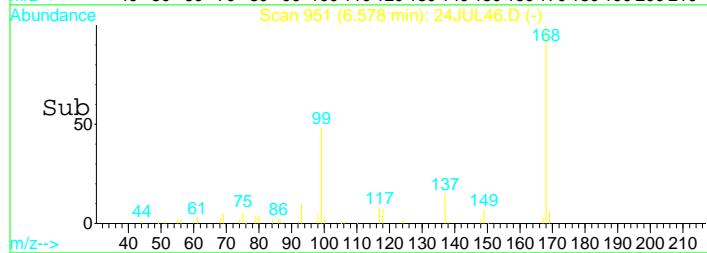
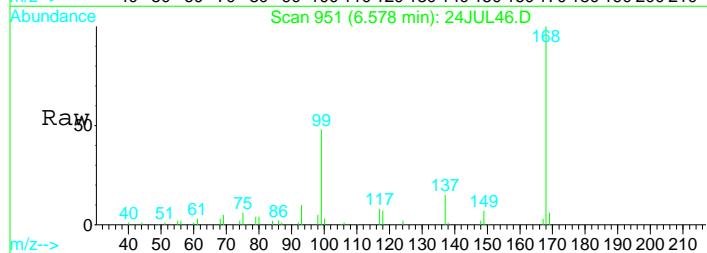
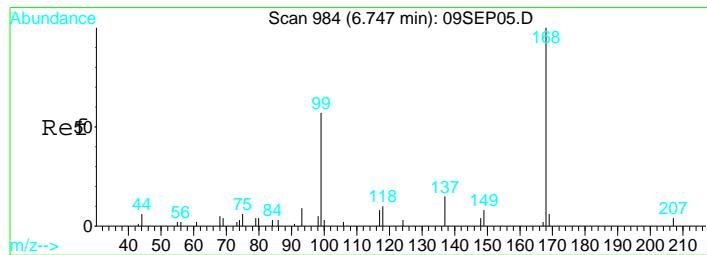
Page 1

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL46.D Vial: 46
 Acq On : 24 Jul 2017 9:58 pm Operator: MGC
 Sample : 1719853-04 Inst : MS-V5
 Misc : 1 ;25ML;pH=1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 25 11:59 2017 Quant Results File: 82605.RES

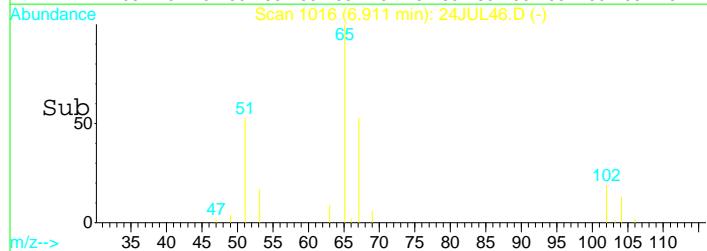
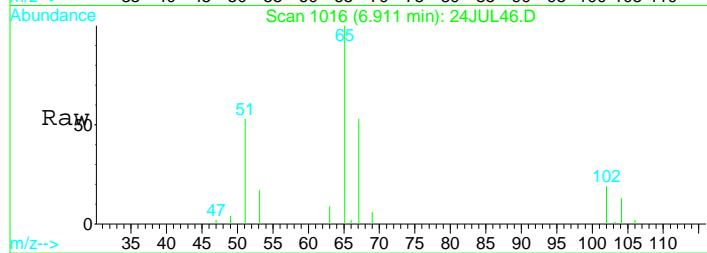
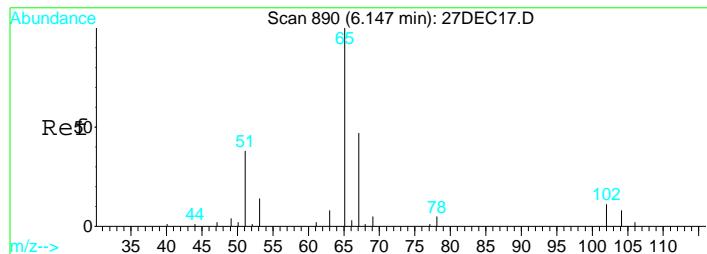
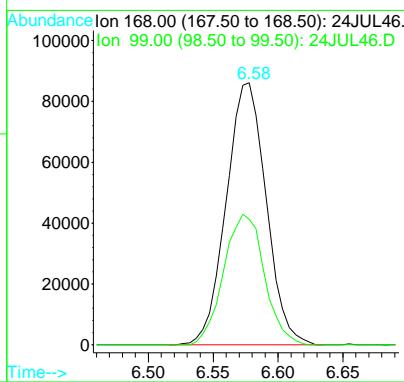
Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration





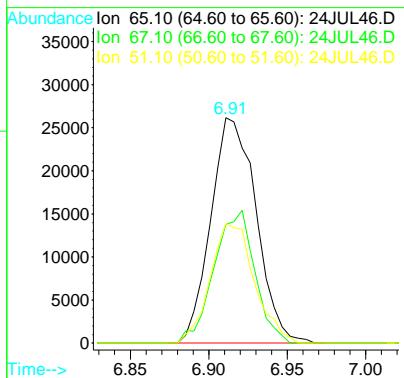
#1
 Pentafluorobenzene IS#1
 Concen: 10.00 ug/L
 RT: 6.58 min Scan# 951
 Delta R.T. 0.00 min
 Lab File: 24JUL46.D
 Acq: 24 Jul 2017 9:58 pm

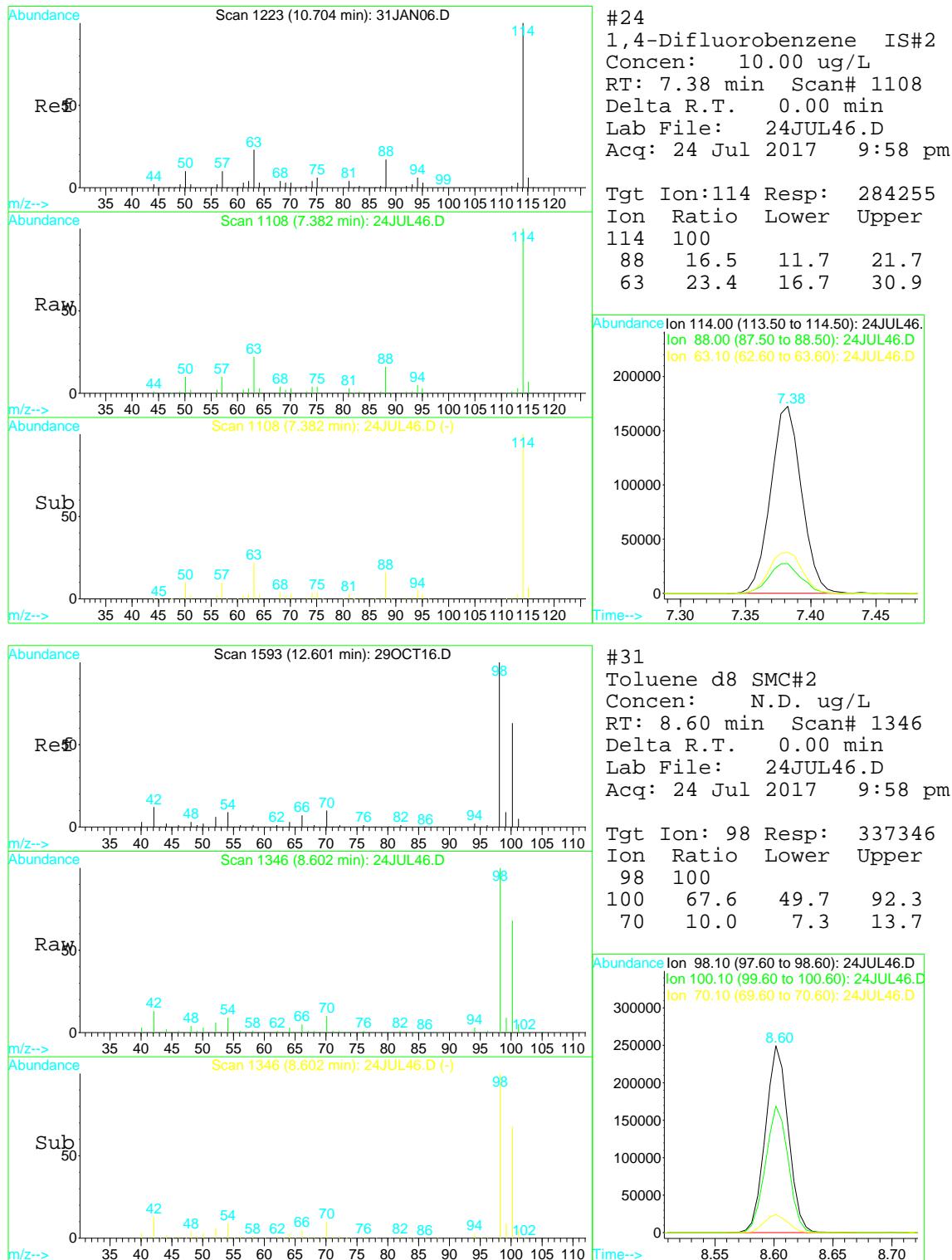
Tgt Ion: 168 Resp: 184146
 Ion Ratio Lower Upper
 168 100
 99 50.5 38.7 71.9

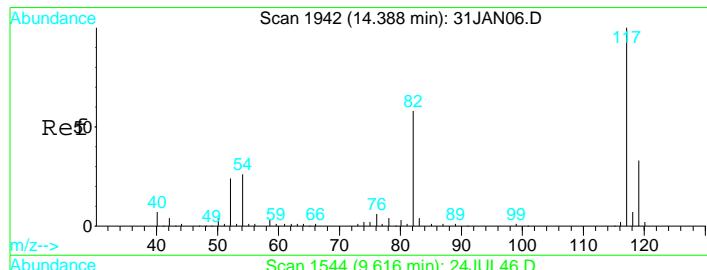


#21
 1,2-dichloroethane d4 SMC #1
 Concen: N.D. ug/L
 RT: 6.91 min Scan# 1016
 Delta R.T. -0.00 min
 Lab File: 24JUL46.D
 Acq: 24 Jul 2017 9:58 pm

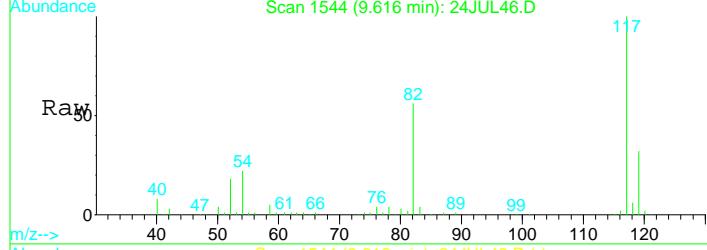
Tgt Ion: 65 Resp: 52512
 Ion Ratio Lower Upper
 65 100
 67 52.7 36.2 67.2
 51 51.6 42.0 78.0



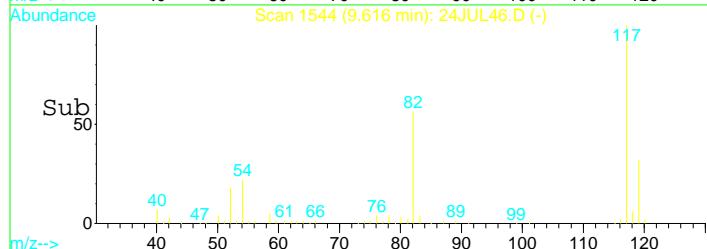




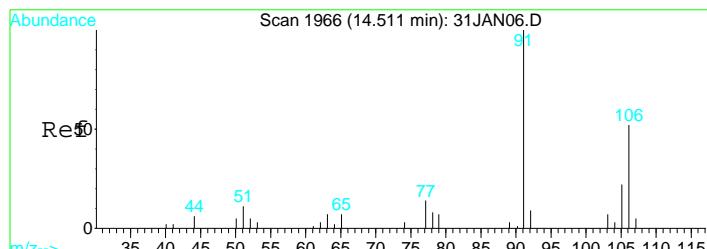
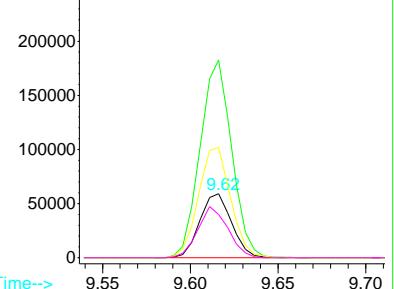
#39
 Chlorobenzene d5 IS#3
 Concen: 10.00 ug/L
 RT: 9.62 min Scan# 1544
 Delta R.T. 0.00 min
 Lab File: 24JUL46.D
 Acq: 24 Jul 2017 9:58 pm



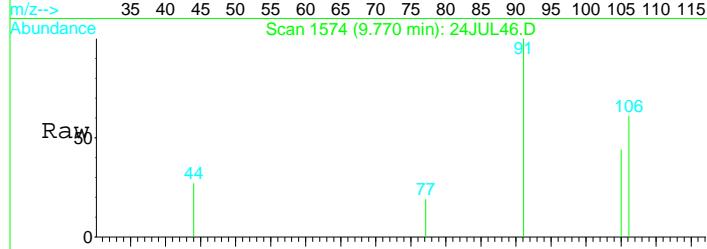
Tgt Ion:119 Resp: 74961
 Ion Ratio Lower Upper
 119 100
 117 305.8 214.5 398.4
 82 174.0 117.7 218.7
 54 75.4 55.2 102.4



Abundance
 Ion 119.00 (118.50 to 119.50): 24JUL46.
 Ion 117.00 (116.50 to 117.50): 24JUL46.
 Ion 82.10 (81.60 to 82.60): 24JUL46.D
 Ion 54.10 (53.60 to 54.60): 24JUL46.D

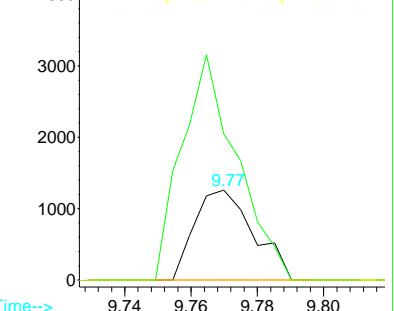


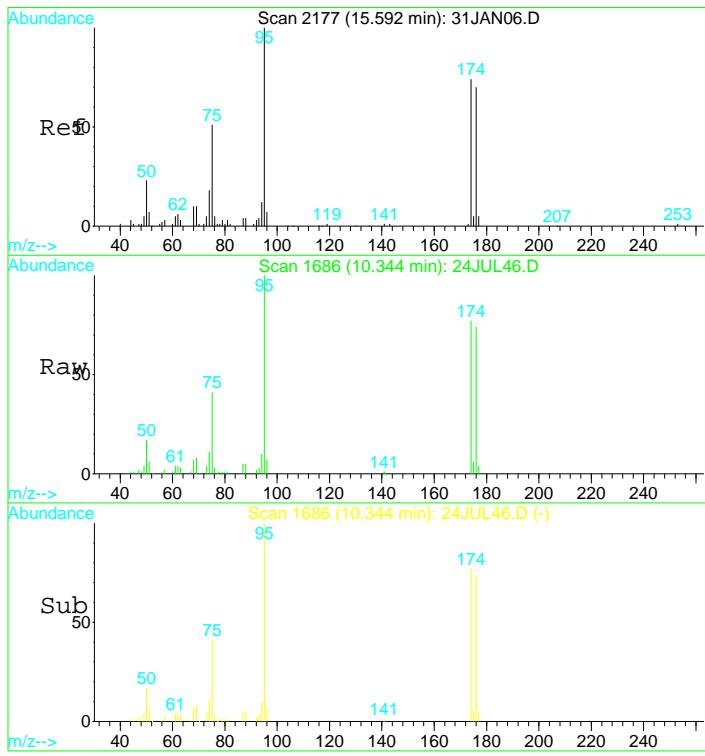
#43
 P+m-Xylene
 Concen: 0.09 ug/L
 RT: 9.77 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: 24JUL46.D
 Acq: 24 Jul 2017 9:58 pm



Tgt Ion:106 Resp: 1556
 Ion Ratio Lower Upper
 106 100
 91 234.6 135.0 250.6
 92 0.0 10.3 19.1#

Abundance
 Ion 106.10 (105.60 to 106.60): 24JUL46.
 Ion 91.10 (90.60 to 91.60): 24JUL46.D
 Ion 92.10 (91.60 to 92.60): 24JUL46.D





#49

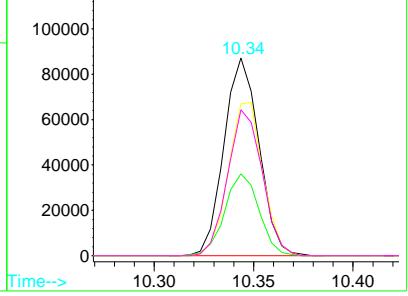
Bromofluorobenzene SMC#3
 Concen: N.D. ug/L
 RT: 10.34 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: 24JUL46.D
 Acq: 24 Jul 2017 9:58 pm

Tgt Ion: 95 Resp: 107051

Ion	Ratio	Lower	Upper
95	100		
75	40.4	29.5	54.7
174	76.2	52.3	97.1
176	72.5	49.6	92.2

Abundance

Ion 95.00 (94.50 to 95.50): 24JUL46.D
 Ion 75.00 (74.50 to 75.50): 24JUL46.D
 Ion 173.90 (173.40 to 174.40): 24JUL46.D
 Ion 175.90 (175.40 to 176.40): 24JUL46.D



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL46.D Vial: 46
Acq On : 24 Jul 2017 9:58 pm Operator: MGC
Sample : 1719853-04 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00

MS Integration Params: rteint.p
Quant Time: Jul 25 12:18 2017

Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

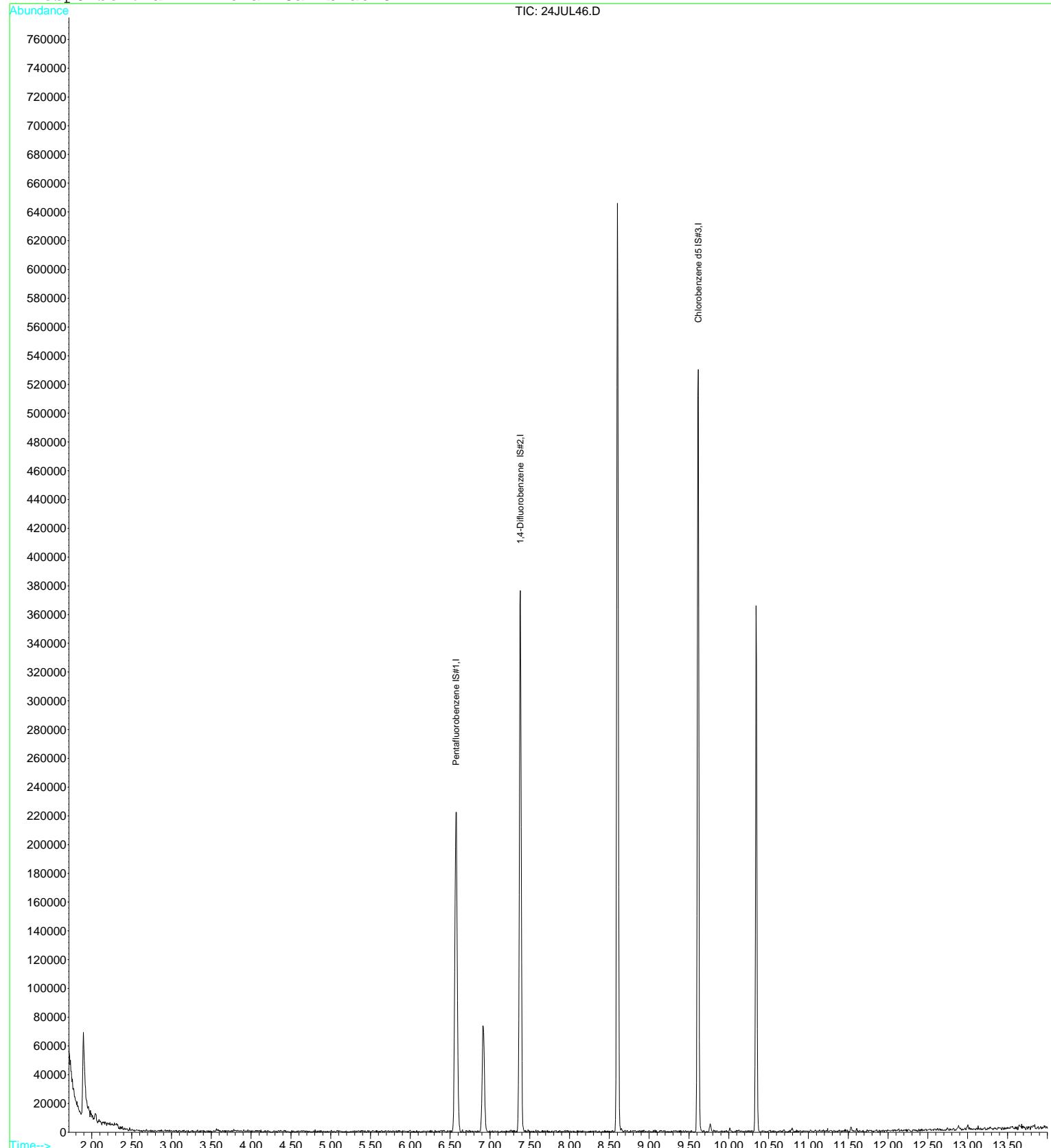
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Pentafluorobenzene IS#1	6.58	168	184146	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	284255	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	74961	10.00	ug/L	0.00

Target Compounds	Qvalue
-----	-----

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL46.D Vial: 46
Acq On : 24 Jul 2017 9:58 pm Operator: MGC
Sample : 1719853-04 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:18 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL47.D Vial: 47
 Acq On : 24 Jul 2017 10:21 pm Operator: MGC
 Sample : 1719853-05 Inst : MS-V5
 Misc : 1 ;25ML;pH=1 Multipllr: 1.00

MS Integration Params: rteint.p
 Quant Time: Jul 25 12:00 2017

Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)

Title : EPA Method 624/524.2/8260

Last Update : Thu Jul 20 11:28:22 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	174397	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	270659	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	72629	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	51626	10.14	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	101.40%
31) Toluene d8 SMC#2	8.60	98	329353	9.85	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	98.50%
49) Bromofluorobenzene SMC#3	10.35	95	109480	10.10	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	101.00%

Target Compounds

					Qvalue
42) Ethylbenzene	9.68	106	9176	0.65	ug/L
43) P+m-Xylene	9.77	106	112013	6.47	ug/L
44) O-Xylene	10.01	106	10421	0.65	ug/L #
47) Isopropylbenzene	10.23	105	25087	0.61	ug/L
51) n-propylbenzene	10.47	91	20145	0.37	ug/L
53) 1,3,5-trimethylbenzene	10.57	105	5220	0.15	ug/L
57) 1,2,4-trimethylbenzene	10.79	105	315154	9.29	ug/L
59) 4-isopropyltoluene	10.97	119	5941	0.16	ug/L
68) naphthalene	12.26	128	10630	0.93	ug/L

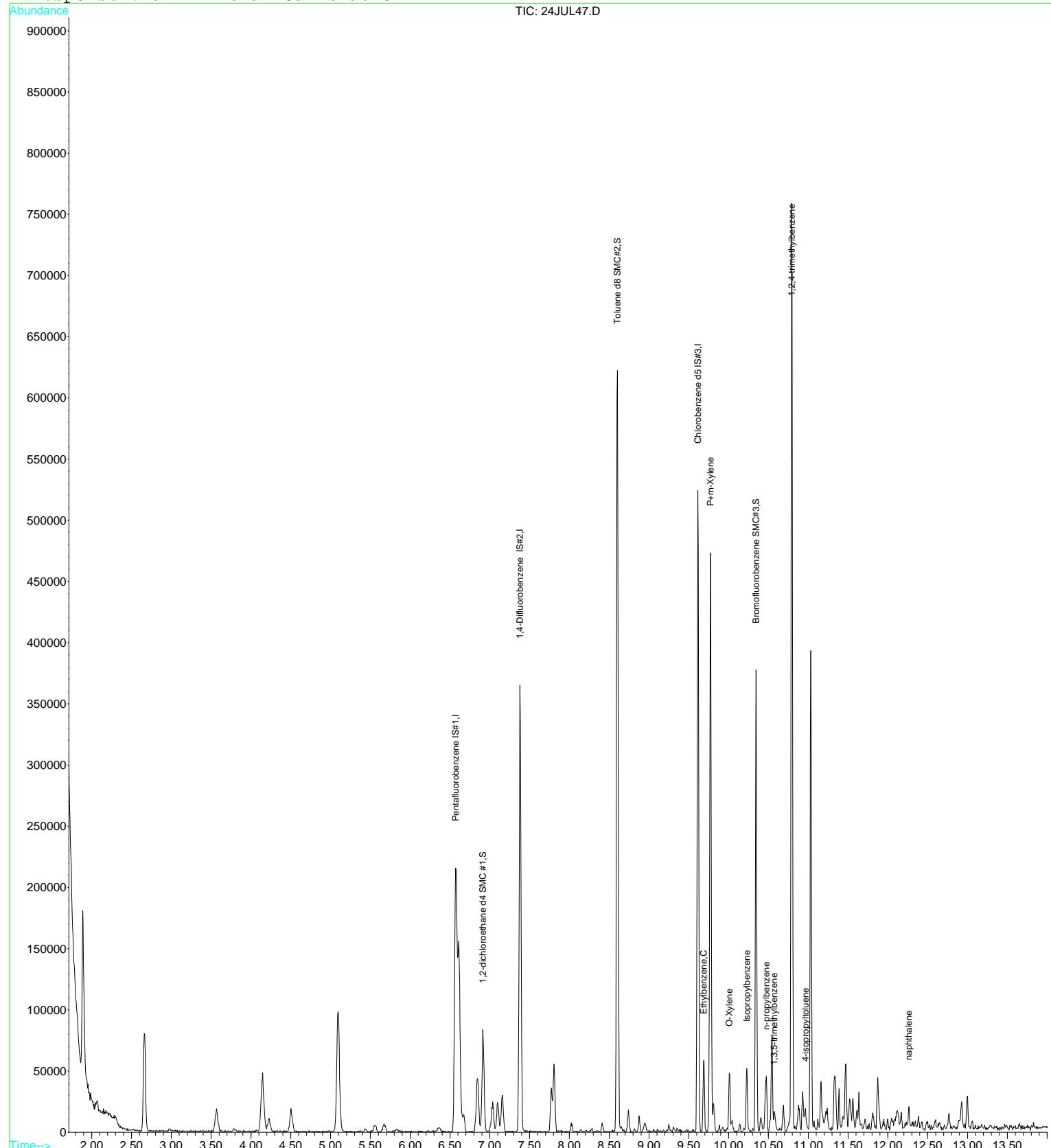
(#) = qualifier out of range (m) = manual integration

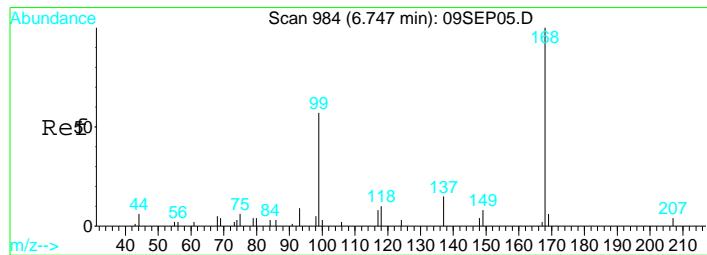
24JUL47.D 82605.M Tue Jul 25 12:06:53 2017

Quantitation Report

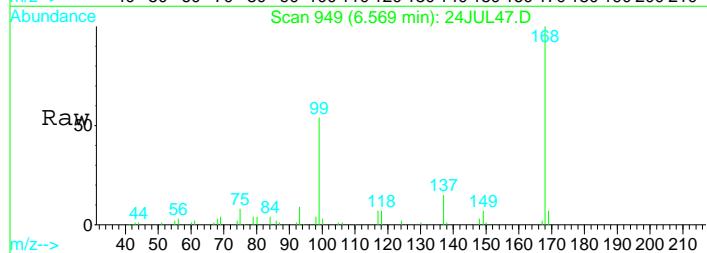
Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL47.D Vial: 47
 Acq On : 24 Jul 2017 10:21 pm Operator: MGC
 Sample : 1719853-05 Inst : MS-V5
 Misc : 1 ;25ML;pH=1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 25 12:00 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration

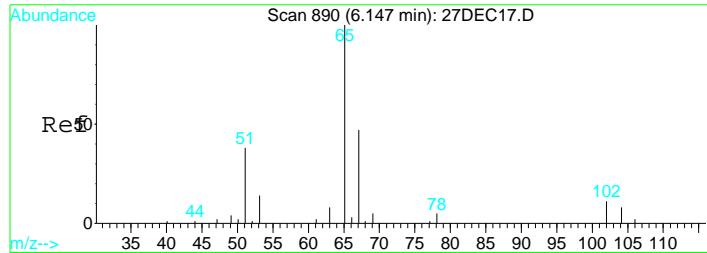
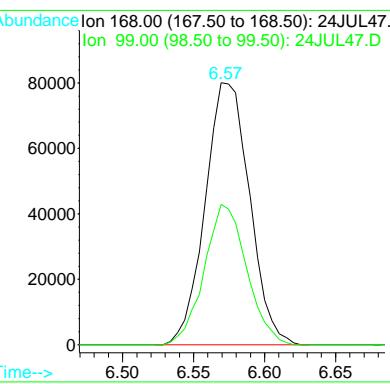
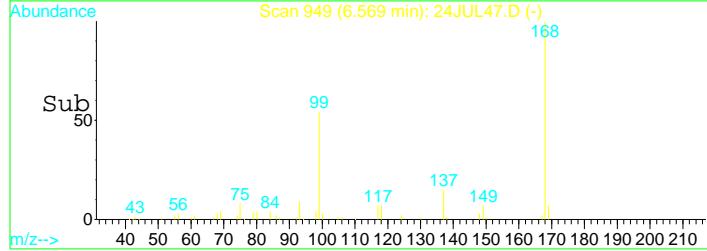




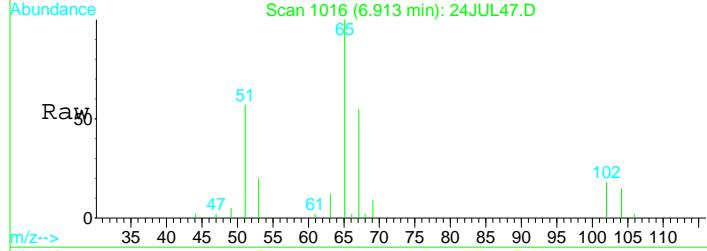
#1
 Pentafluorobenzene IS#1
 Concen: 10.00 ug/L
 RT: 6.57 min Scan# 949
 Delta R.T. -0.01 min
 Lab File: 24JUL47.D
 Acq: 24 Jul 2017 10:21 pm



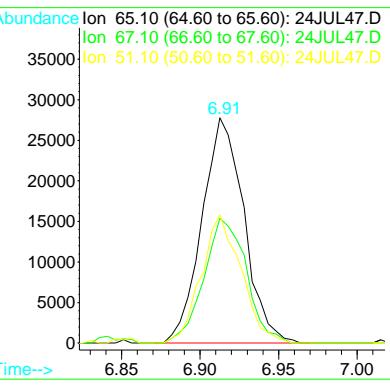
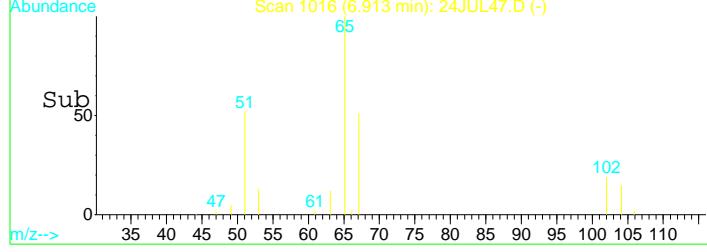
Tgt Ion: 168 Resp: 174397
 Ion Ratio Lower Upper
 168 100
 99 51.1 38.7 71.9

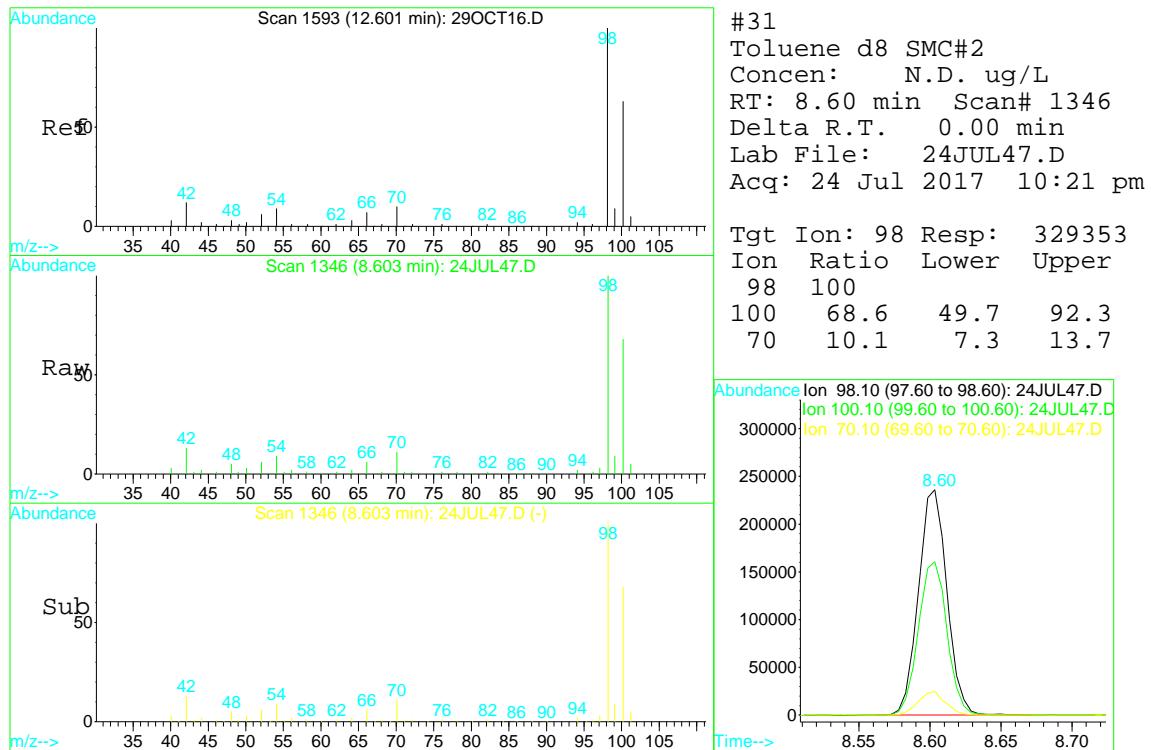
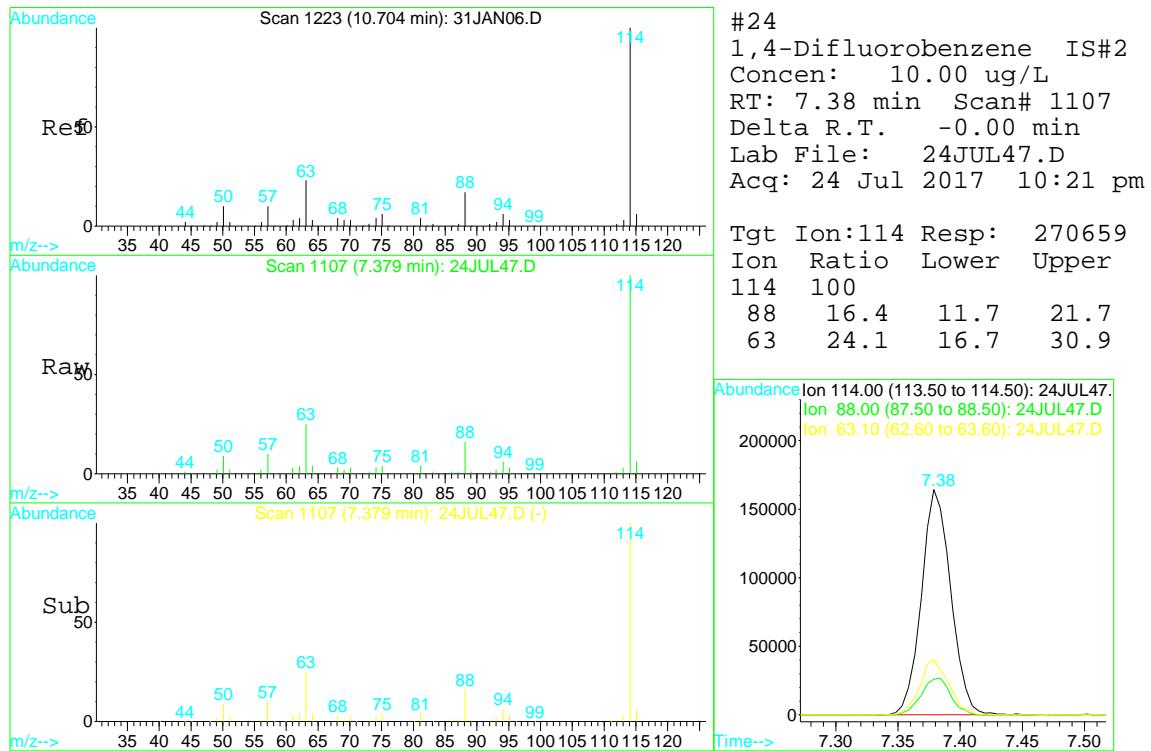


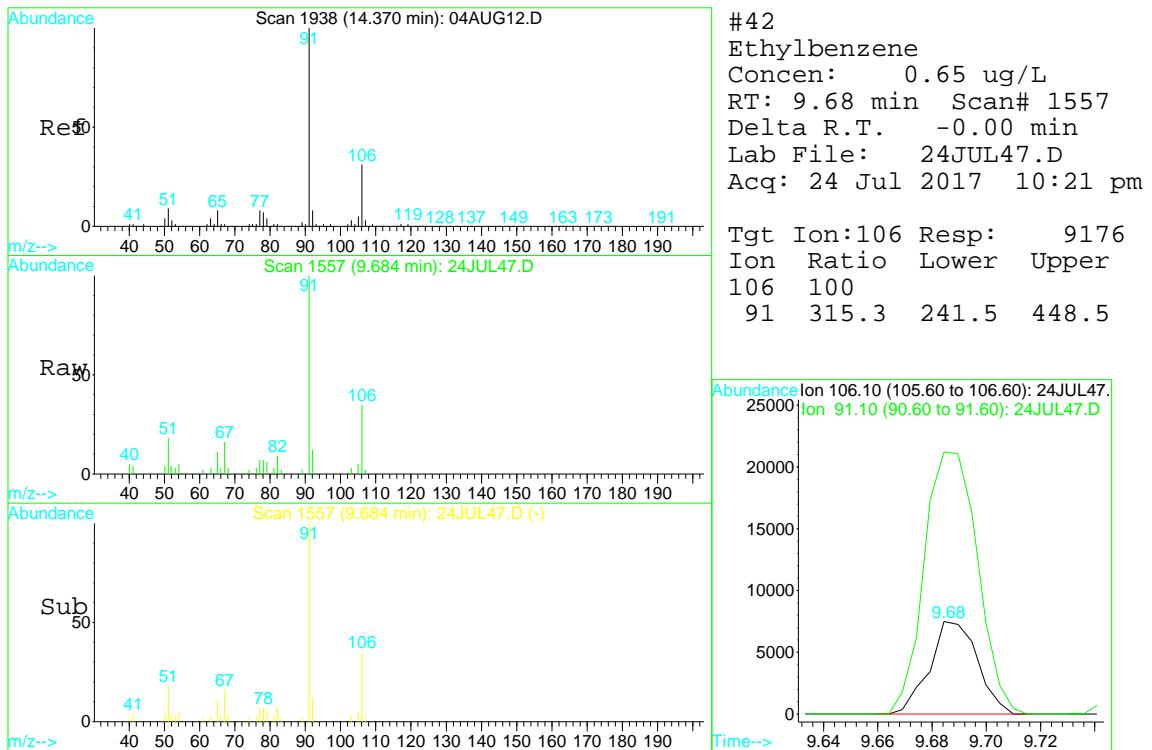
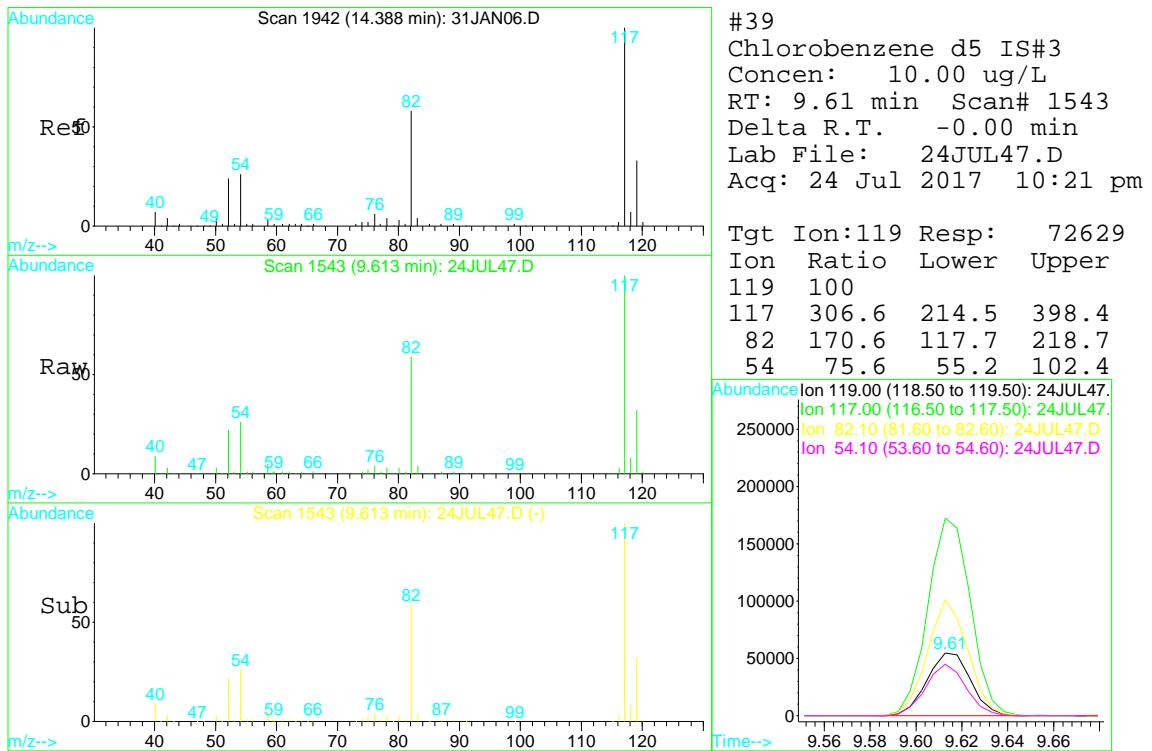
#21
 1,2-dichloroethane d4 SMC #1
 Concen: N.D. ug/L
 RT: 6.91 min Scan# 1016
 Delta R.T. -0.00 min
 Lab File: 24JUL47.D
 Acq: 24 Jul 2017 10:21 pm

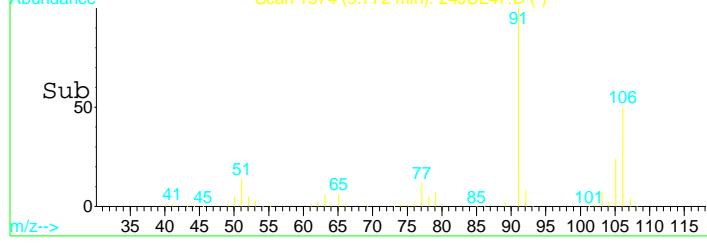
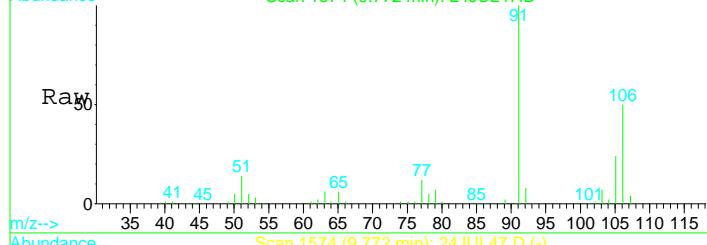
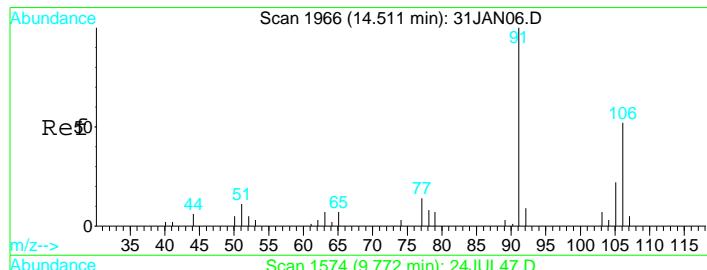


Tgt Ion: 65 Resp: 51626
 Ion Ratio Lower Upper
 65 100
 67 55.9 36.2 67.2
 51 54.1 42.0 78.0



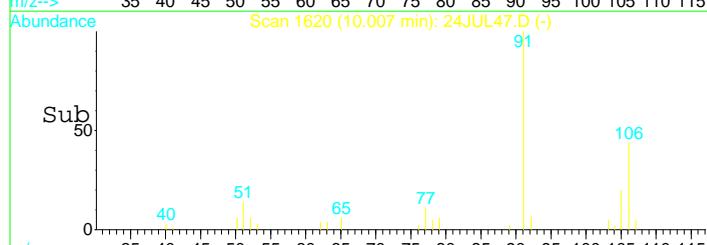
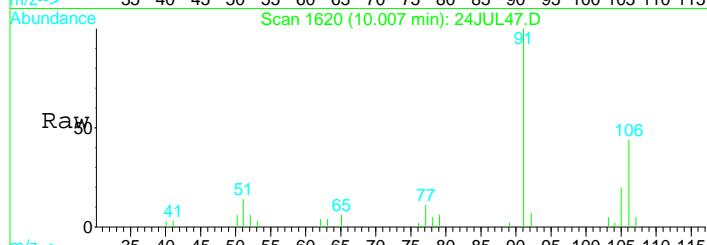
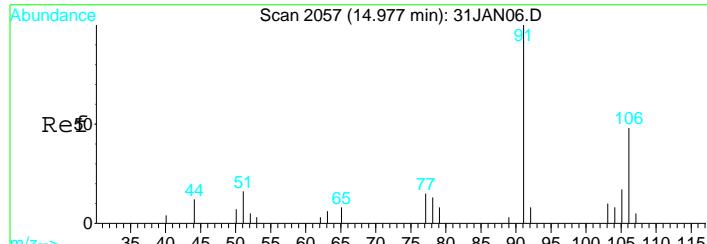
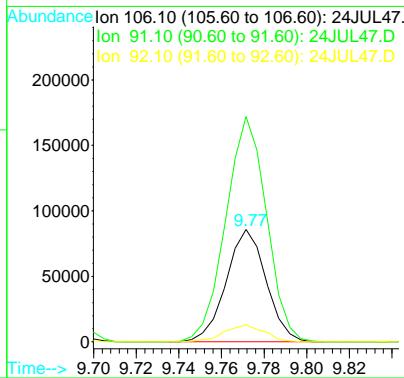






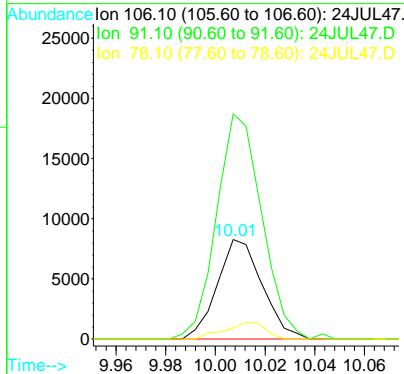
#43
P+m-Xylene
Concen: 6.47 ug/L
RT: 9.77 min Scan# 1574
Delta R.T. 0.00 min
Lab File: 24JUL47.D
Acq: 24 Jul 2017 10:21 pm

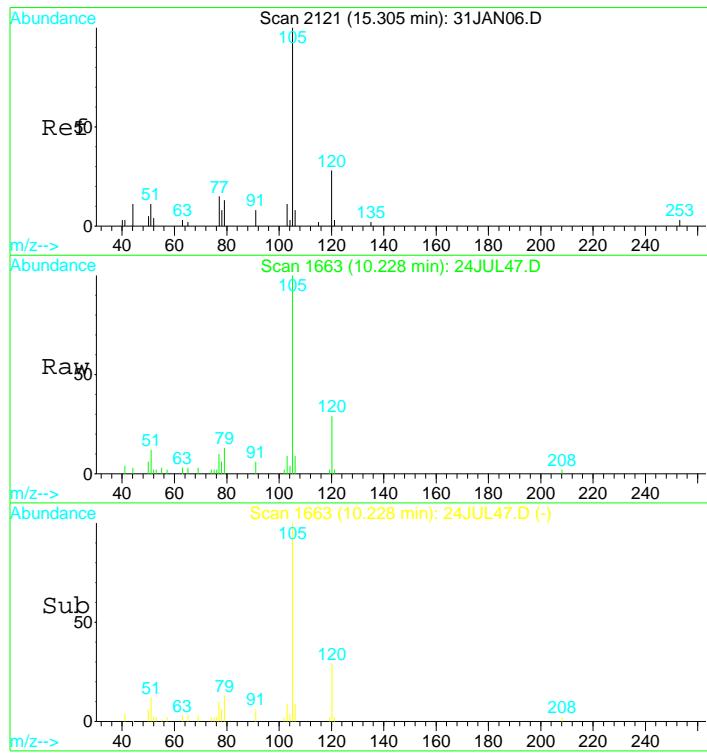
Tgt Ion:106 Resp: 112013
Ion Ratio Lower Upper
106 100
91 204.2 135.0 250.6
92 15.4 10.3 19.1



#44
O-Xylene
Concen: 0.65 ug/L
RT: 10.01 min Scan# 1620
Delta R.T. -0.00 min
Lab File: 24JUL47.D
Acq: 24 Jul 2017 10:21 pm

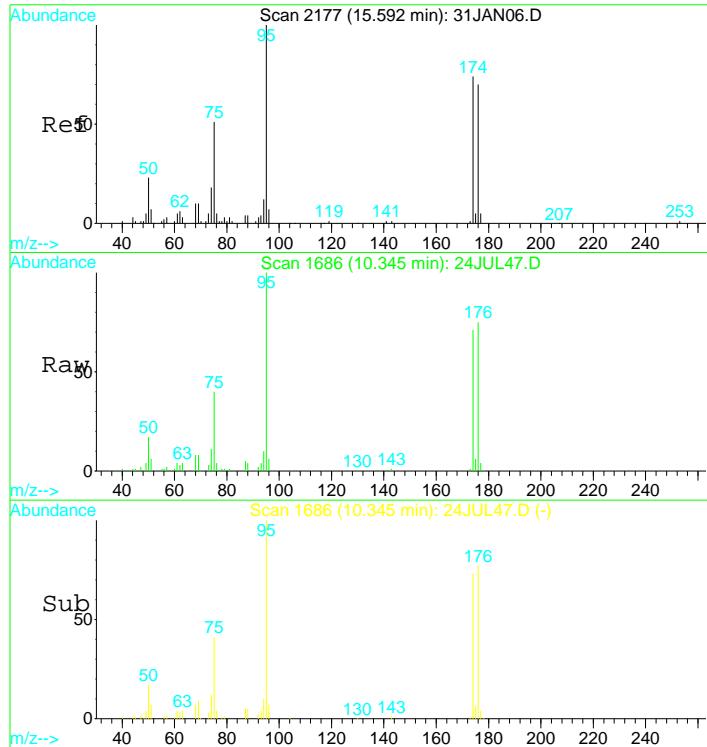
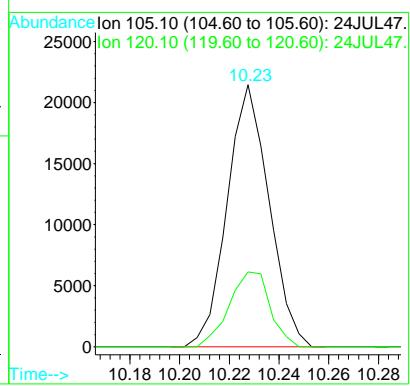
Tgt Ion:106 Resp: 10421
Ion Ratio Lower Upper
106 100
91 227.6 154.3 286.5
78 15.1 47.1 87.5#





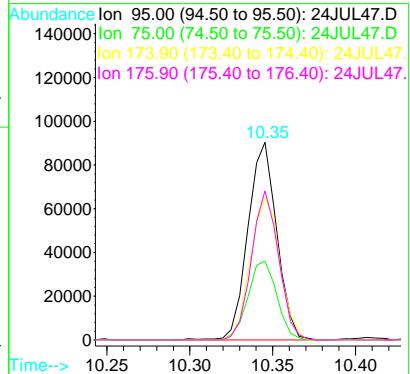
#47
 Isopropylbenzene
 Concen: 0.61 ug/L
 RT: 10.23 min Scan# 1663
 Delta R.T. -0.00 min
 Lab File: 24JUL47.D
 Acq: 24 Jul 2017 10:21 pm

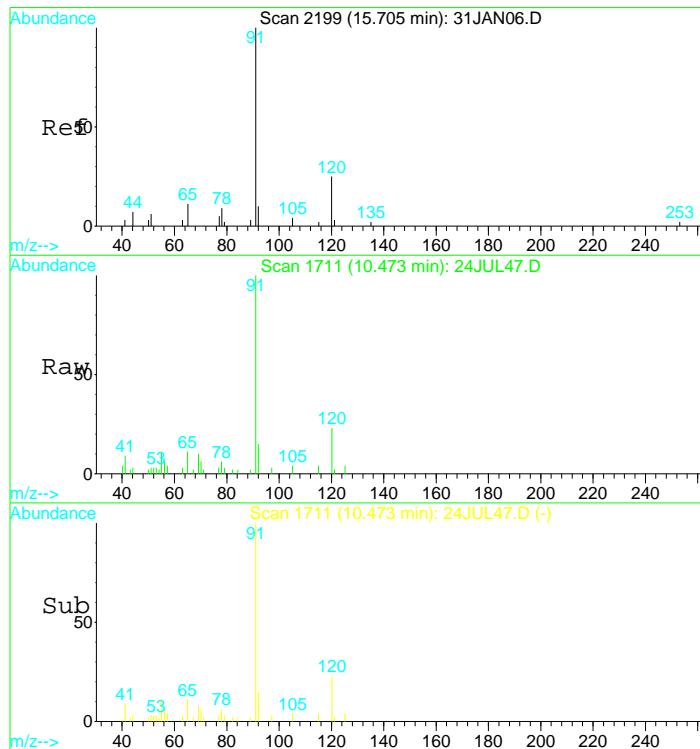
Tgt Ion: 105 Resp: 25087
 Ion Ratio Lower Upper
 105 100
 120 27.9 19.2 35.6



#49
 Bromofluorobenzene SMC#3
 Concen: N.D. ug/L
 RT: 10.35 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: 24JUL47.D
 Acq: 24 Jul 2017 10:21 pm

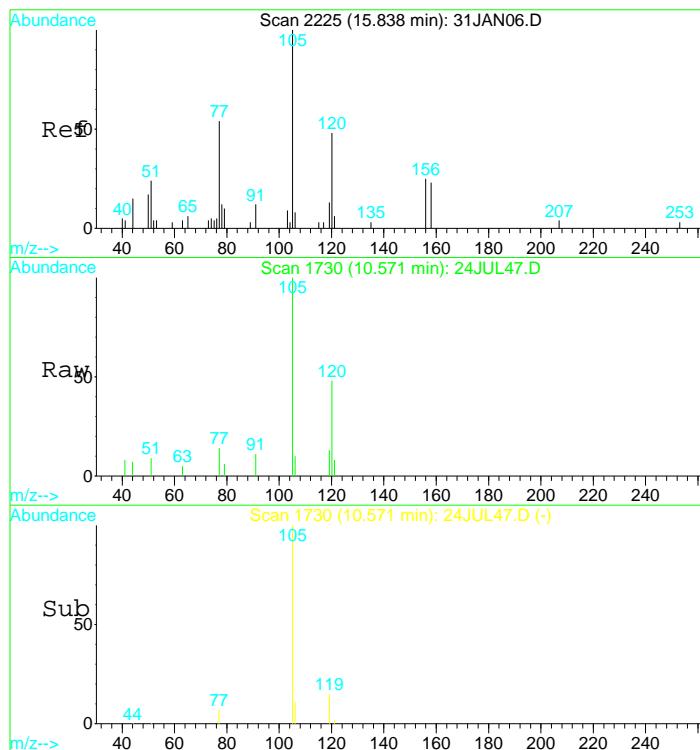
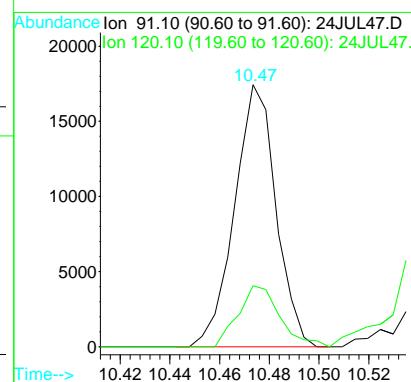
Tgt Ion: 95 Resp: 109480
 Ion Ratio Lower Upper
 95 100
 75 39.9 29.5 54.7
 174 73.0 52.3 97.1
 176 70.6 49.6 92.2





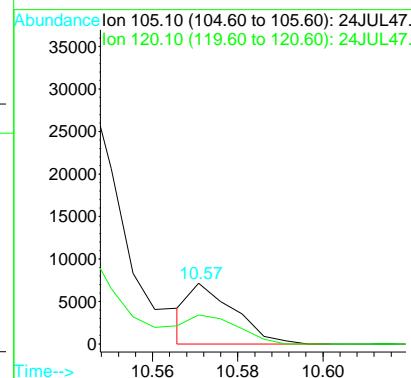
#51
n-propylbenzene
Concen: 0.37 ug/L
RT: 10.47 min Scan# 1711
Delta R.T. -0.00 min
Lab File: 24JUL47.D
Acq: 24 Jul 2017 10:21 pm

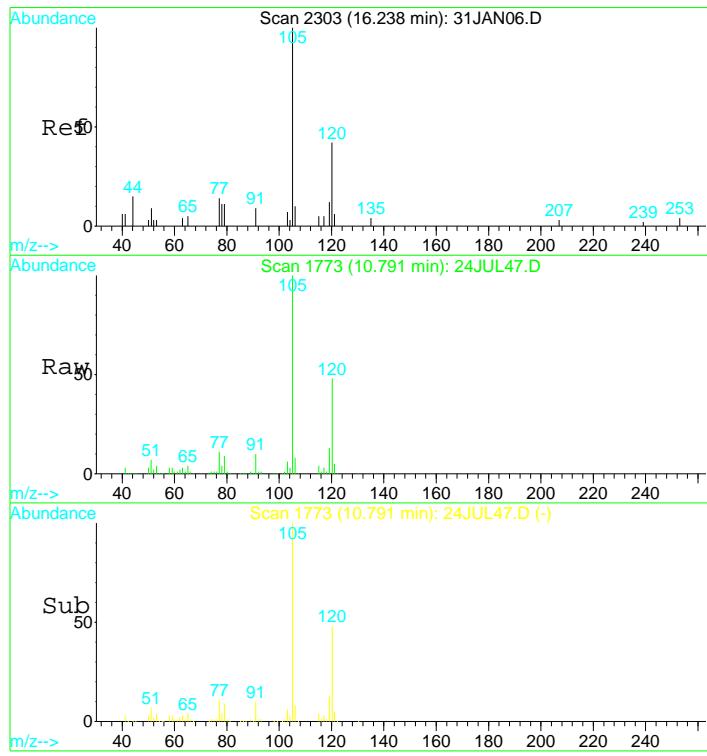
Tgt Ion: 91 Resp: 20145
Ion Ratio Lower Upper
91 100
120 23.4 14.8 27.6



#53
1,3,5-trimethylbenzene
Concen: 0.15 ug/L
RT: 10.57 min Scan# 1730
Delta R.T. -0.00 min
Lab File: 24JUL47.D
Acq: 24 Jul 2017 10:21 pm

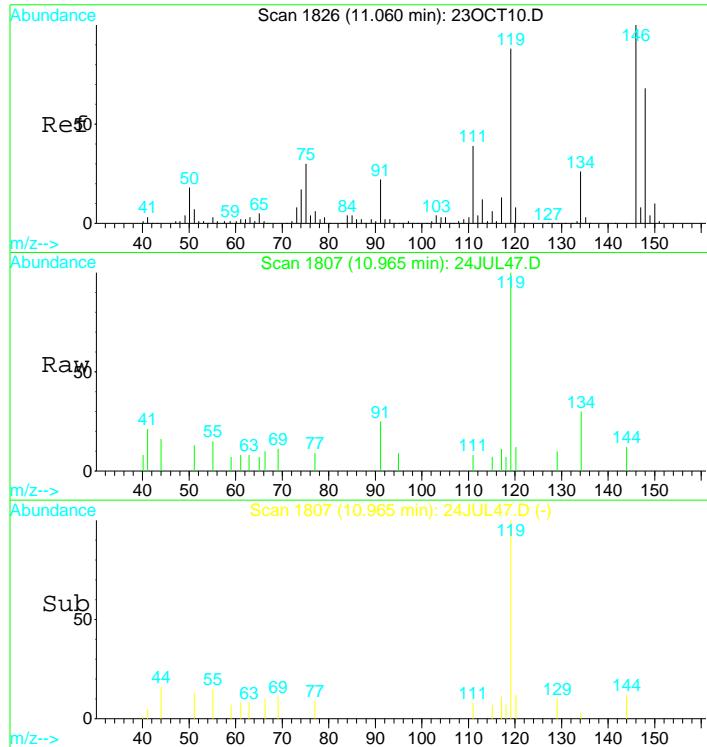
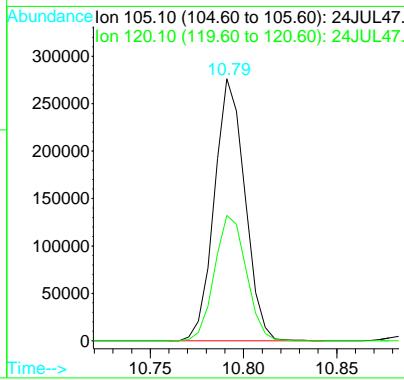
Tgt Ion: 105 Resp: 5220
Ion Ratio Lower Upper
105 100
120 51.5 33.8 62.8





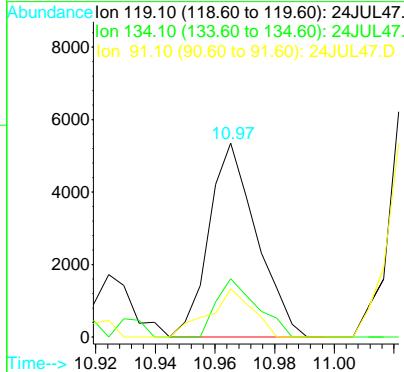
#57
 1, 2, 4-trimethylbenzene
 Concen: 9.29 ug/L
 RT: 10.79 min Scan# 1773
 Delta R.T. -0.00 min
 Lab File: 24JUL47.D
 Acq: 24 Jul 2017 10:21 pm

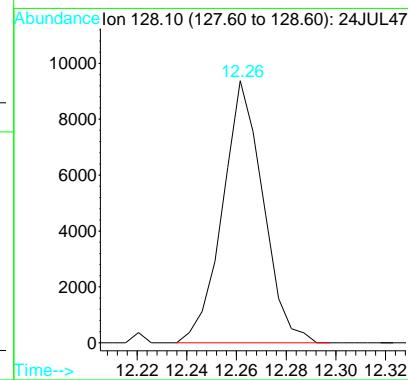
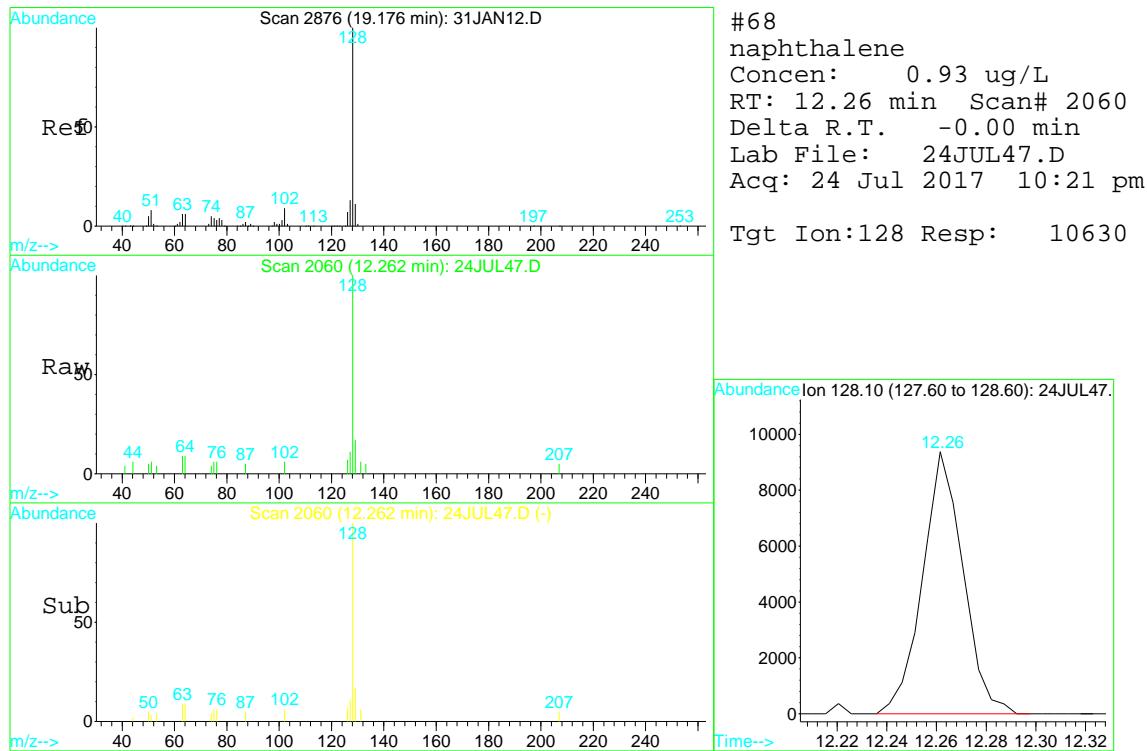
Tgt Ion:105 Resp: 315154
 Ion Ratio Lower Upper
 105 100
 120 49.6 31.8 59.0



#59
 4-isopropyltoluene
 Concen: 0.16 ug/L
 RT: 10.97 min Scan# 1807
 Delta R.T. -0.00 min
 Lab File: 24JUL47.D
 Acq: 24 Jul 2017 10:21 pm

Tgt Ion:119 Resp: 5941
 Ion Ratio Lower Upper
 119 100
 134 25.8 17.9 33.3
 91 22.8 16.0 29.6





Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL47.D Vial: 47
Acq On : 24 Jul 2017 10:21 pm Operator: MGC
Sample : 1719853-05 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:18 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

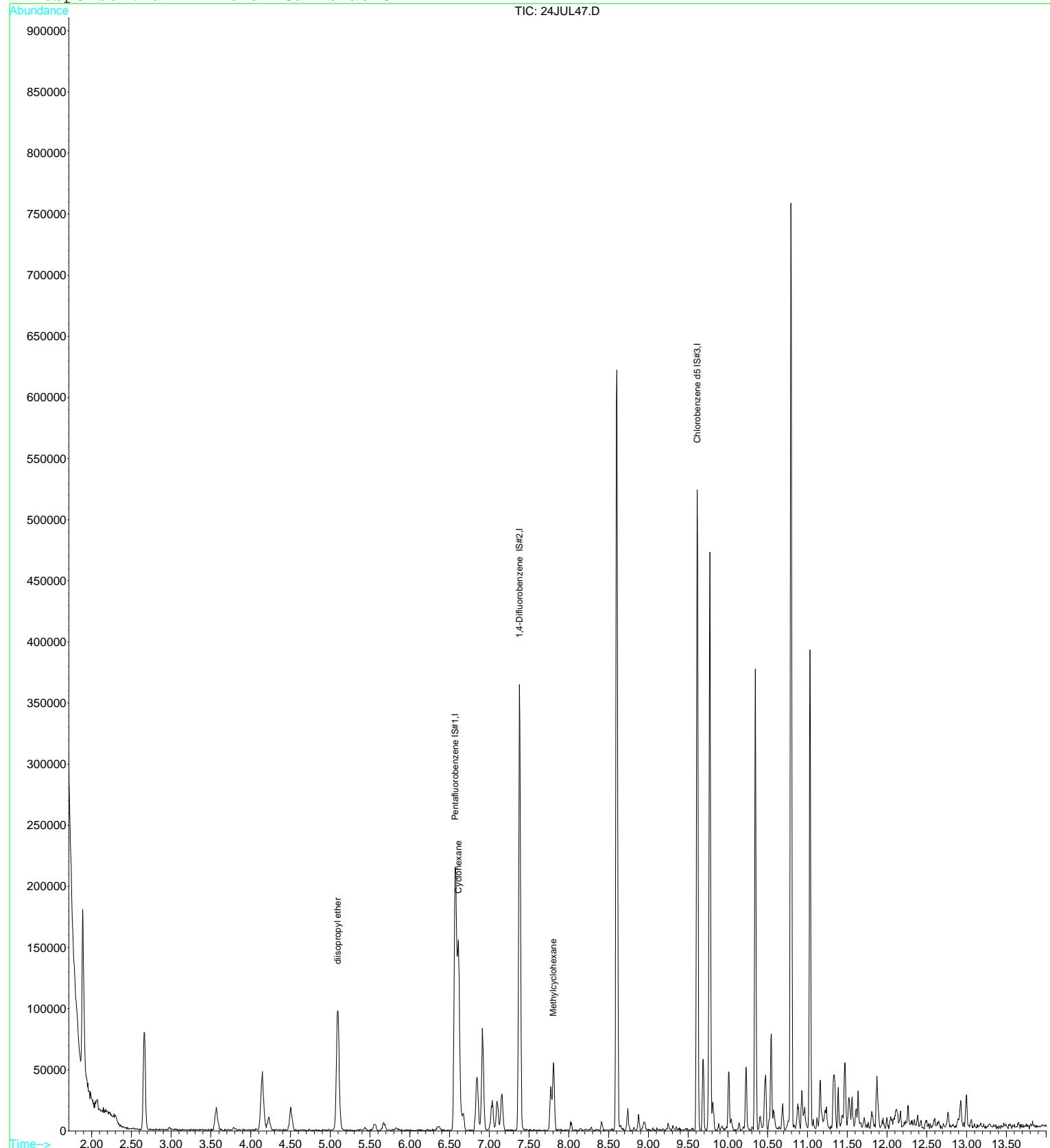
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Pentafluorobenzene IS#1	6.57	168	174397	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	270659	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	72629	10.00	ug/L	0.00

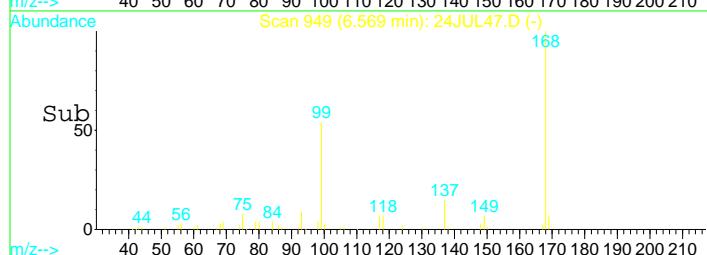
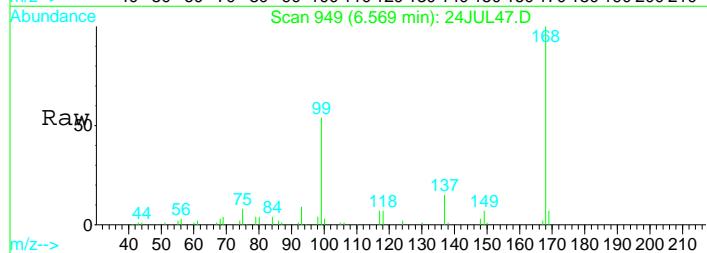
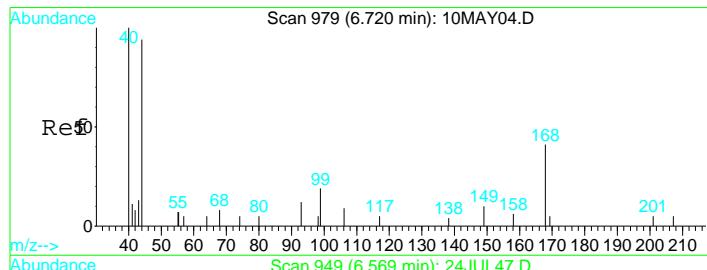
Target Compounds	Qvalue
17) diisopropyl ether	5.09 87 22634 3.47 ug/L # 93
27) Cyclohexane	6.61 56 107472 4.71 ug/L # 78
31) Methylcyclohexane	7.80 55 19305 1.17 ug/L # 78

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL47.D Vial: 47
Acq On : 24 Jul 2017 10:21 pm Operator: MGC
Sample : 1719853-05 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:18 2017 Quant Results File: 82605X.RES

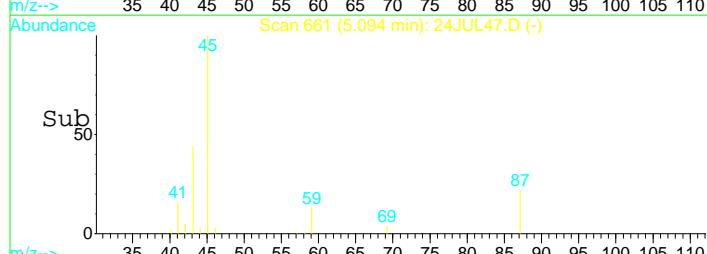
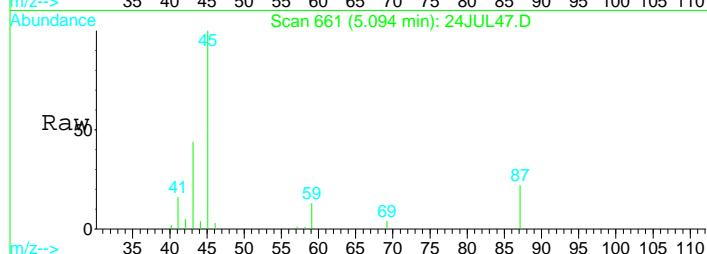
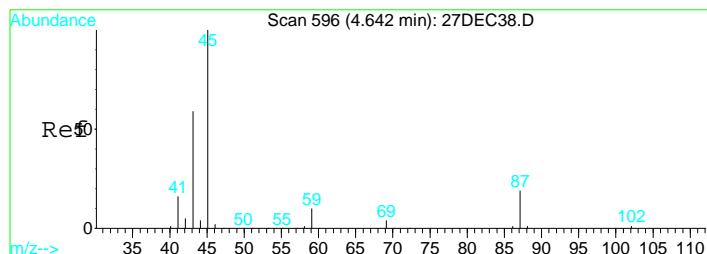
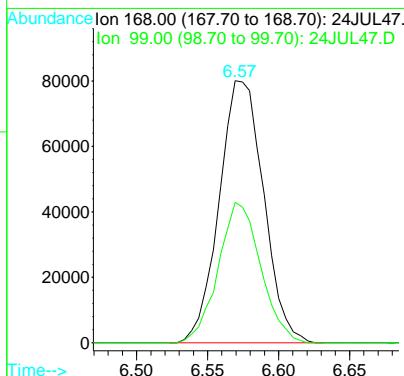
Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration





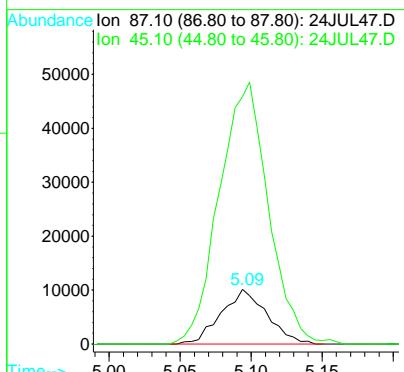
#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 949
Delta R.T. -0.01 min
Lab File: 24JUL47.D
Acq: 24 Jul 2017 10:21 pm

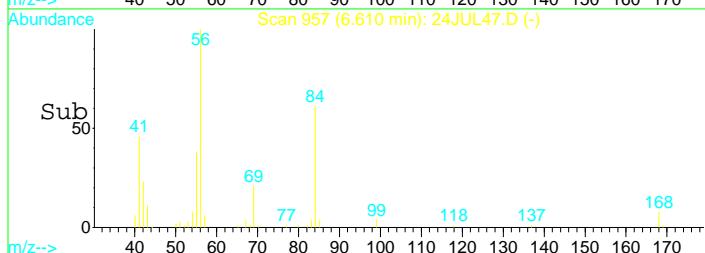
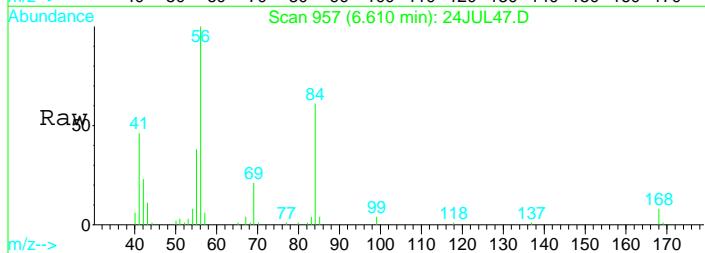
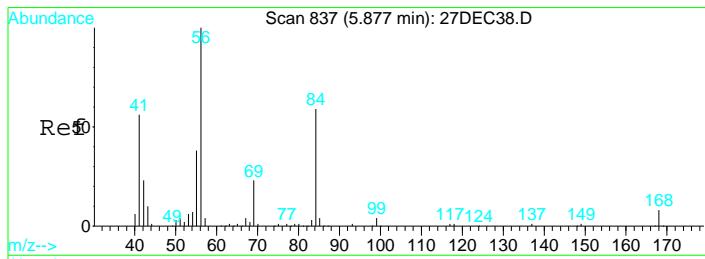
Tgt Ion: 168 Resp: 174397
Ion Ratio Lower Upper
168 100
99 51.1 36.1 67.1



#17
diisopropyl ether
Concen: 3.47 ug/L
RT: 5.09 min Scan# 661
Delta R.T. -0.00 min
Lab File: 24JUL47.D
Acq: 24 Jul 2017 10:21 pm

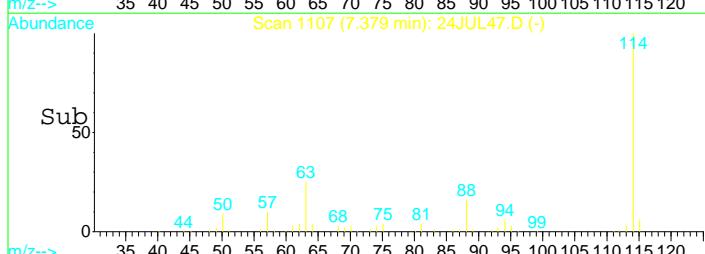
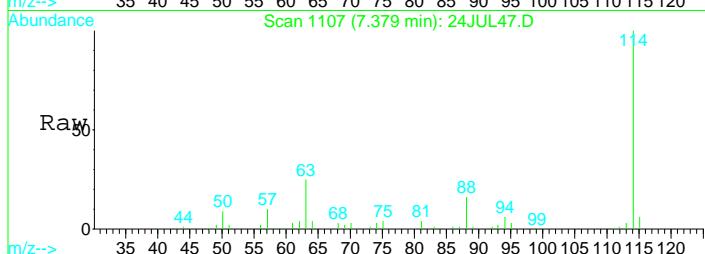
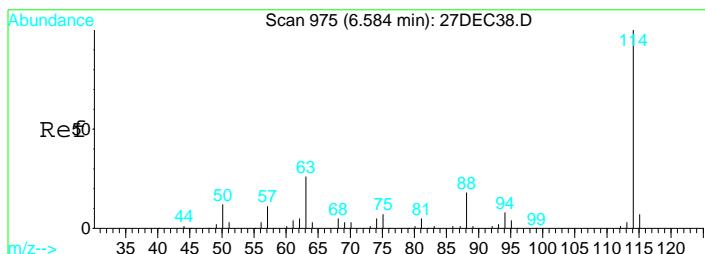
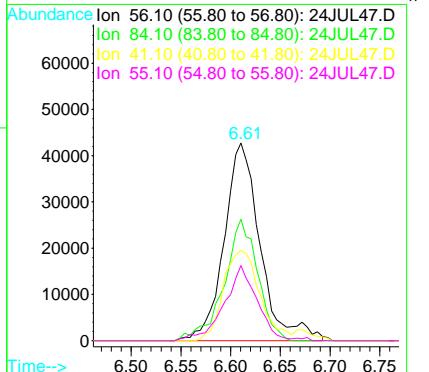
Tgt Ion: 87 Resp: 22634
Ion Ratio Lower Upper
87 100
45 517.2 349.1 648.3





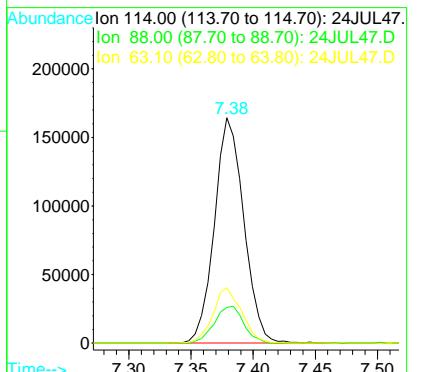
#27
Cyclohexane
Concen: 4.71 ug/L
RT: 6.61 min Scan# 957
Delta R.T. -0.00 min
Lab File: 24JUL47.D
Acq: 24 Jul 2017 10:21 pm

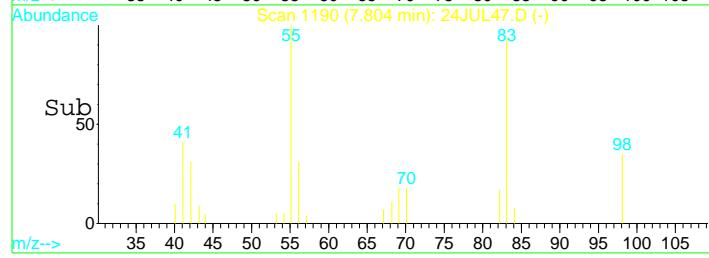
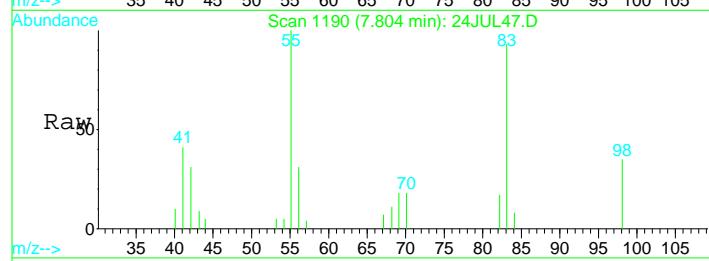
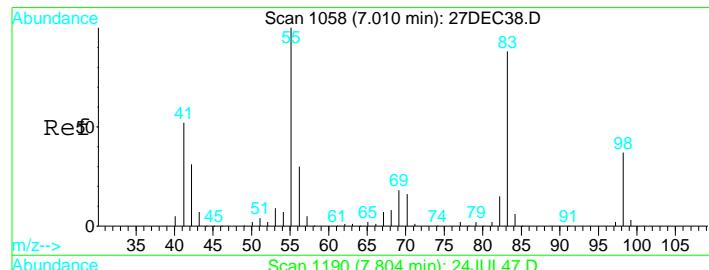
Tgt Ion: 56 Resp: 107472
Ion Ratio Lower Upper
56 100
84 57.2 29.5 54.7#
41 46.3 26.4 49.0
55 35.1 13.9 25.9#



#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1107
Delta R.T. -0.00 min
Lab File: 24JUL47.D
Acq: 24 Jul 2017 10:21 pm

Tgt Ion: 114 Resp: 270659
Ion Ratio Lower Upper
114 100
88 16.4 11.1 20.7
63 24.1 16.4 30.4

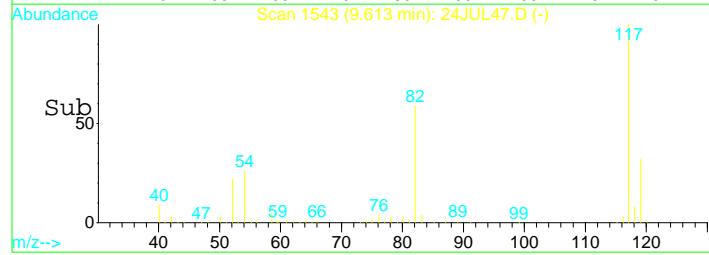
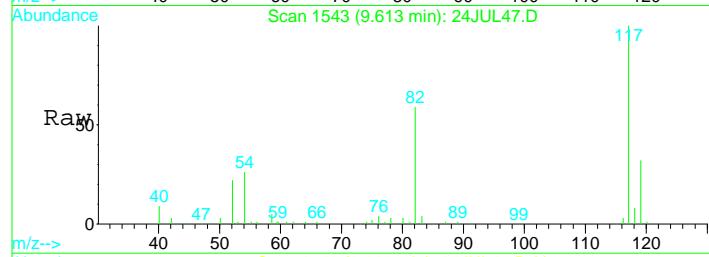
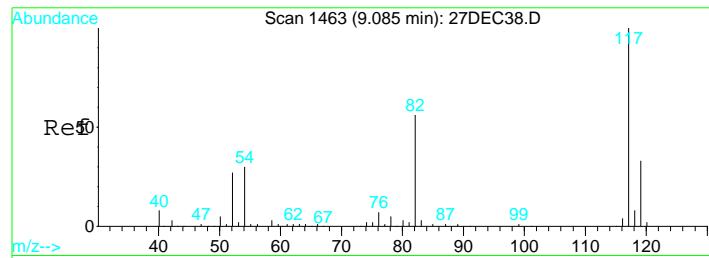
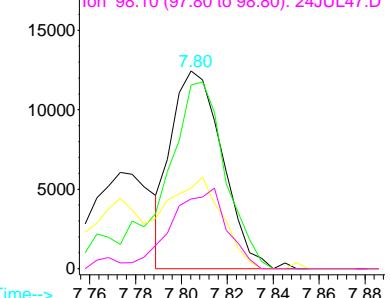




#31
Methylcyclohexane
Concen: 1.17 ug/L
RT: 7.80 min Scan# 1190
Delta R.T. -0.00 min
Lab File: 24JUL47.D
Acq: 24 Jul 2017 10:21 pm

Tgt Ion: 55 Resp: 19305
Ion Ratio Lower Upper
55 100
83 119.3 56.7 105.3#
41 50.8 34.9 64.9
98 43.5 28.3 52.5

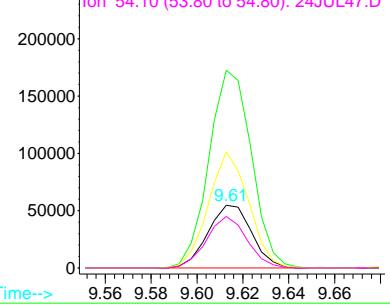
Abundance
Ion 55.10 (54.80 to 55.80): 24JUL47.D
Ion 83.10 (82.80 to 83.80): 24JUL47.D
Ion 41.10 (40.80 to 41.80): 24JUL47.D
Ion 98.10 (97.80 to 98.80): 24JUL47.D



#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.61 min Scan# 1543
Delta R.T. -0.00 min
Lab File: 24JUL47.D
Acq: 24 Jul 2017 10:21 pm

Tgt Ion: 119 Resp: 72629
Ion Ratio Lower Upper
119 100
117 306.6 217.1 403.3
82 170.6 122.7 227.9
54 75.6 55.2 102.6

Abundance
Ion 119.00 (118.70 to 119.70): 24JUL47.
Ion 117.00 (116.70 to 117.70): 24JUL47.
Ion 82.10 (81.80 to 82.80): 24JUL47.D
Ion 54.10 (53.80 to 54.80): 24JUL47.D



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL48.D Vial: 48
 Acq On : 24 Jul 2017 10:44 pm Operator: MGC
 Sample : 1719853-06 Inst : MS-V5
 Misc : 1 ;25ML;pH=1 Multiplr: 1.00

MS Integration Params: rteint.p
 Quant Time: Jul 25 12:00 2017

Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)

Title : EPA Method 624/524.2/8260

Last Update : Thu Jul 20 11:28:22 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	183079	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	281507	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	74220	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	52247	9.77	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	97.70%
31) Toluene d8 SMC#2	8.60	98	340758	9.80	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	98.00%
49) Bromofluorobenzene SMC#3	10.34	95	106948	9.65	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	96.50%

Target Compounds

					Qvalue
43) P+m-Xylene	9.77	106	2356	0.13	ug/L # 91
57) 1,2,4-trimethylbenzene	10.79	105	2327	0.07	ug/L 90

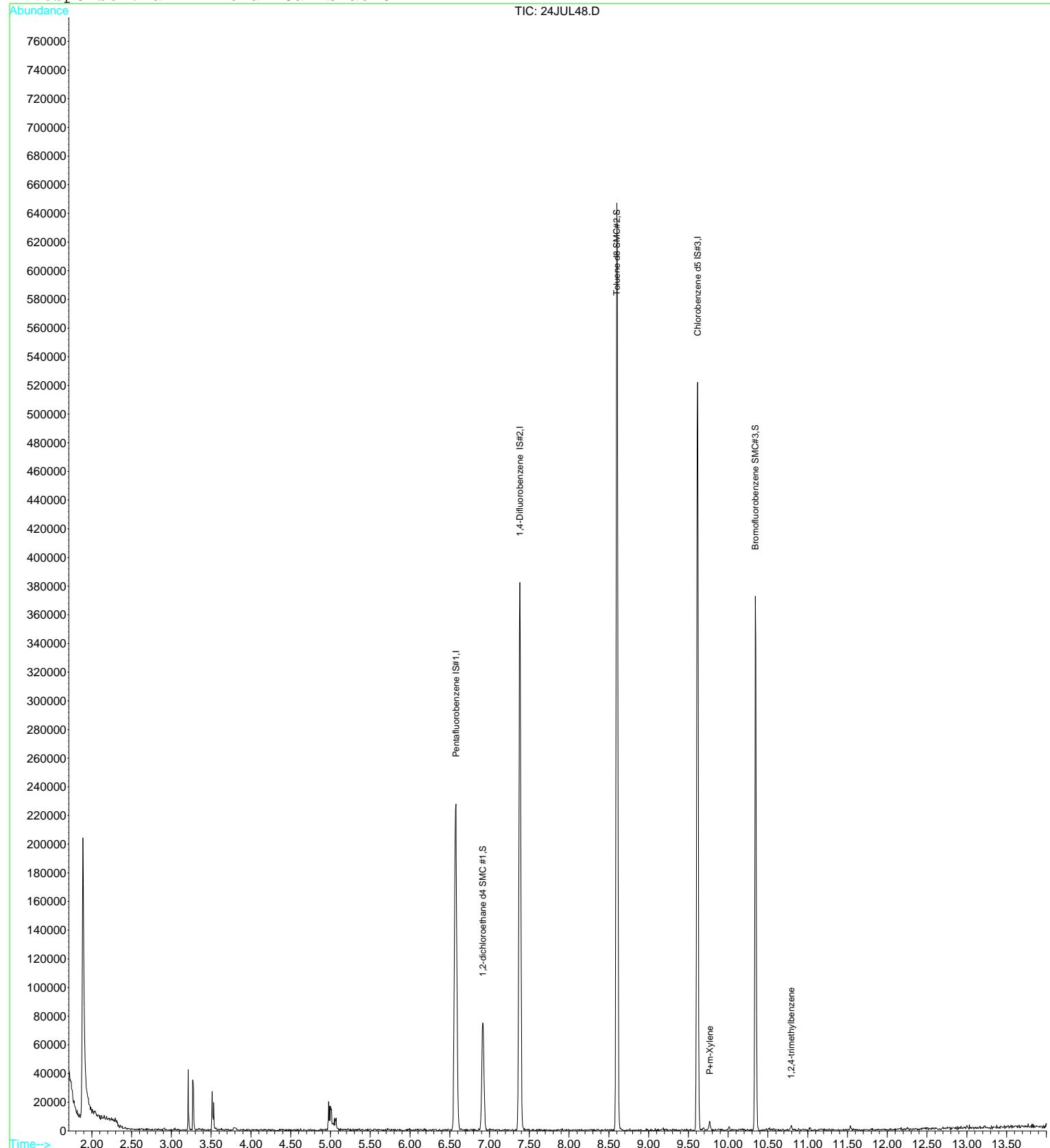
(#) = qualifier out of range (m) = manual integration

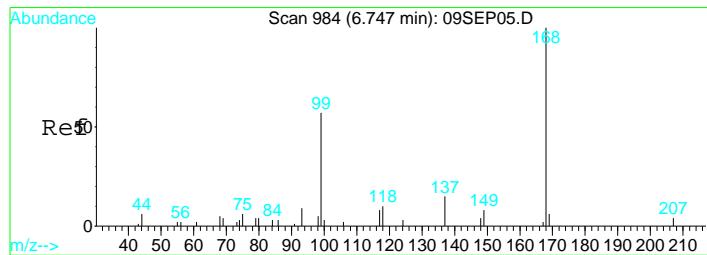
24JUL48.D 82605.M Tue Jul 25 12:06:54 2017

Quantitation Report

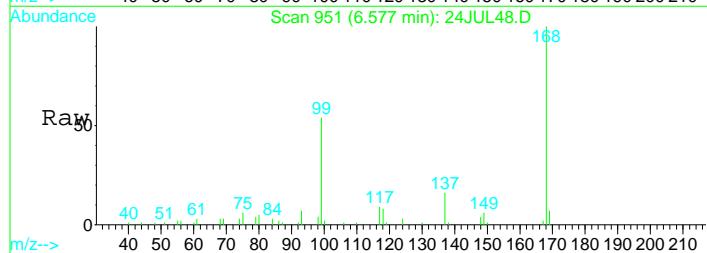
Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL48.D Vial: 48
 Acq On : 24 Jul 2017 10:44 pm Operator: MGC
 Sample : 1719853-06 Inst : MS-V5
 Misc : 1 ;25ML;pH=1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 25 12:00 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration

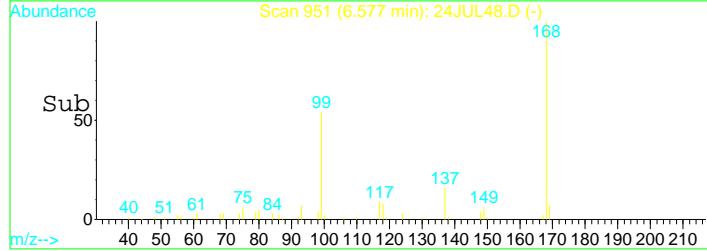




#1
 Pentafluorobenzene IS#1
 Concen: 10.00 ug/L
 RT: 6.58 min Scan# 951
 Delta R.T. 0.00 min
 Lab File: 24JUL48.D
 Acq: 24 Jul 2017 10:44 pm

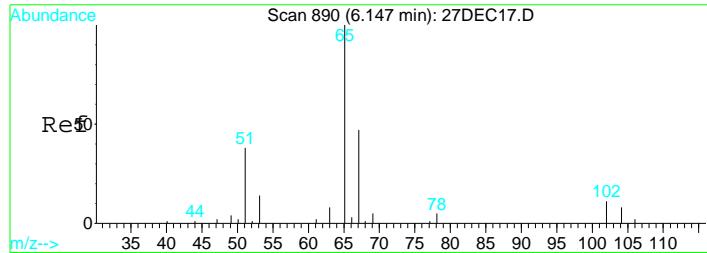
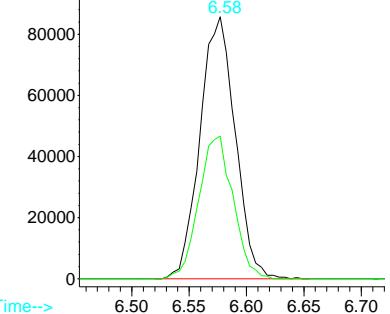


Tgt Ion: 168 Resp: 183079
 Ion Ratio Lower Upper
 168 100
 99 52.9 38.7 71.9

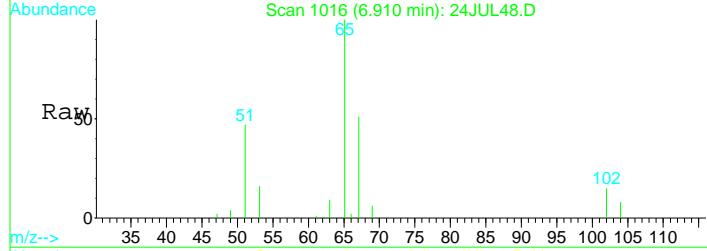


Abundance Ion 168.00 (167.50 to 168.50): 24JUL48.D

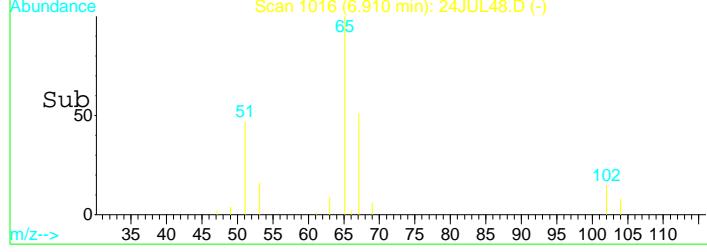
Ion 99.00 (98.50 to 99.50): 24JUL48.D



#21
 1,2-dichloroethane d4 SMC #1
 Concen: N.D. ug/L
 RT: 6.91 min Scan# 1016
 Delta R.T. -0.00 min
 Lab File: 24JUL48.D
 Acq: 24 Jul 2017 10:44 pm



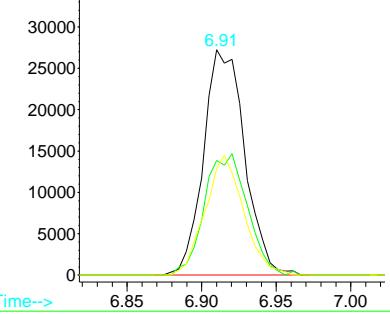
Tgt Ion: 65 Resp: 52247
 Ion Ratio Lower Upper
 65 100
 67 56.3 36.2 67.2
 51 49.8 42.0 78.0

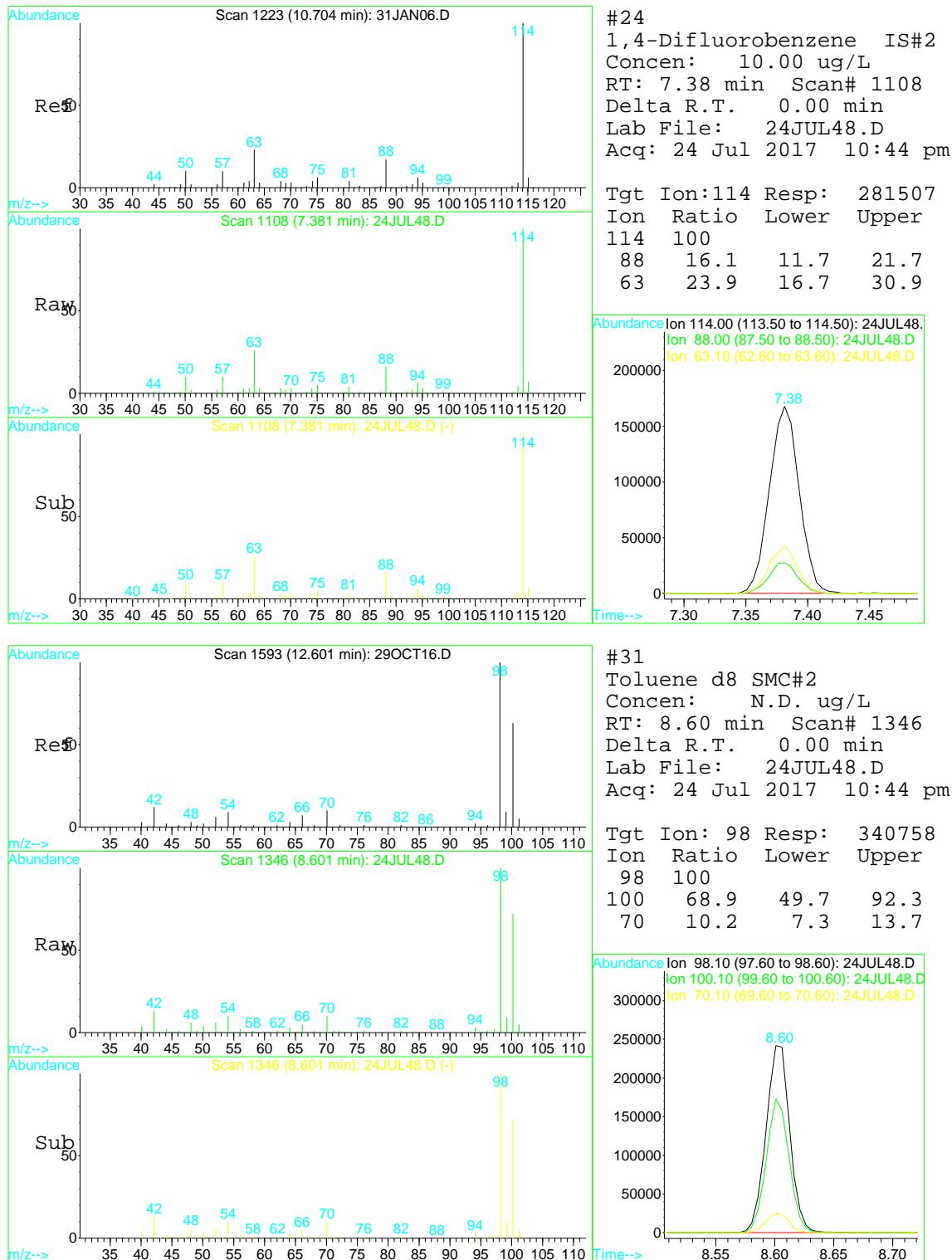


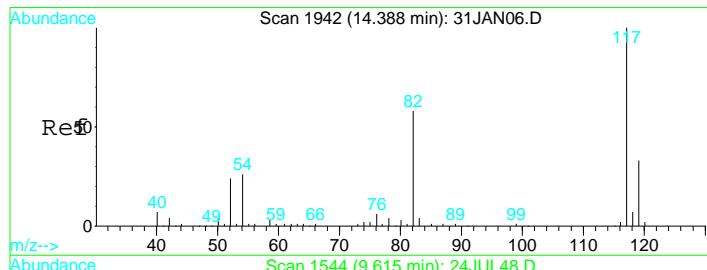
Abundance Ion 65.10 (64.60 to 65.60): 24JUL48.D

Ion 67.10 (66.60 to 67.60): 24JUL48.D

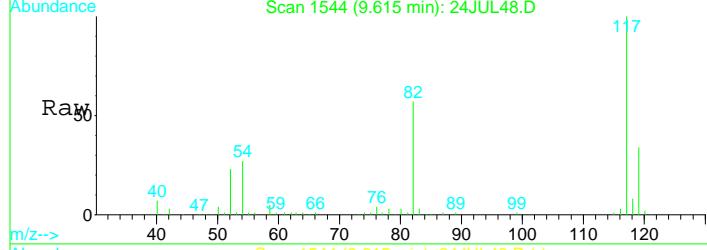
Ion 51.10 (50.60 to 51.60): 24JUL48.D



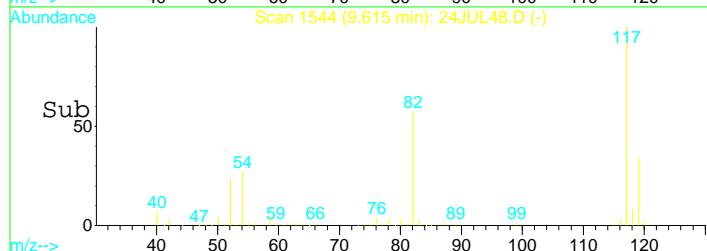




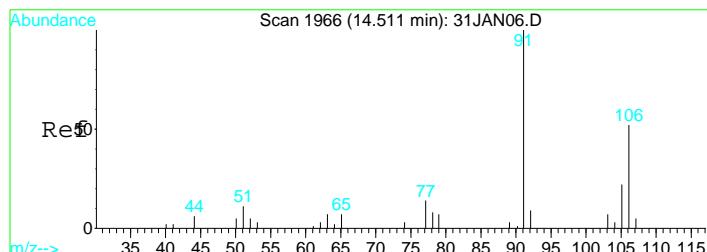
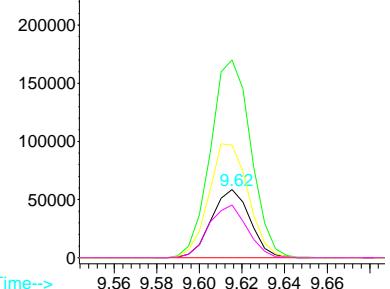
#39
 Chlorobenzene d5 IS#3
 Concen: 10.00 ug/L
 RT: 9.62 min Scan# 1544
 Delta R.T. 0.00 min
 Lab File: 24JUL48.D
 Acq: 24 Jul 2017 10:44 pm



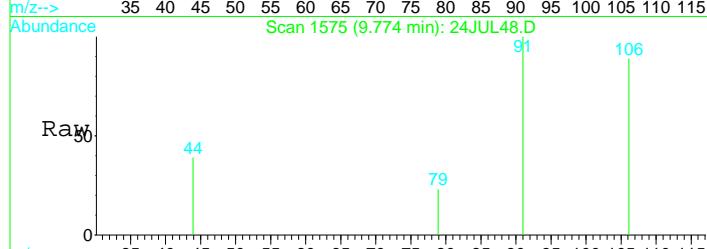
Tgt Ion:119 Resp: 74220
 Ion Ratio Lower Upper
 119 100
 117 303.0 214.5 398.4
 82 170.8 117.7 218.7
 54 76.8 55.2 102.4



Abundance Ion 119.00 (118.50 to 119.50): 24JUL48.
 Ion 117.00 (116.50 to 117.50): 24JUL48.
 Ion 82.10 (81.60 to 82.60): 24JUL48.D
 Ion 54.10 (53.60 to 54.60): 24JUL48.D

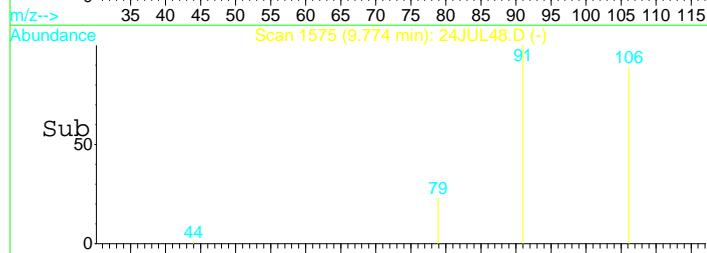
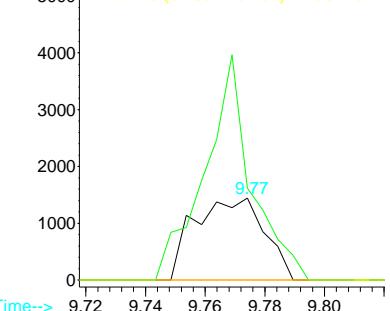


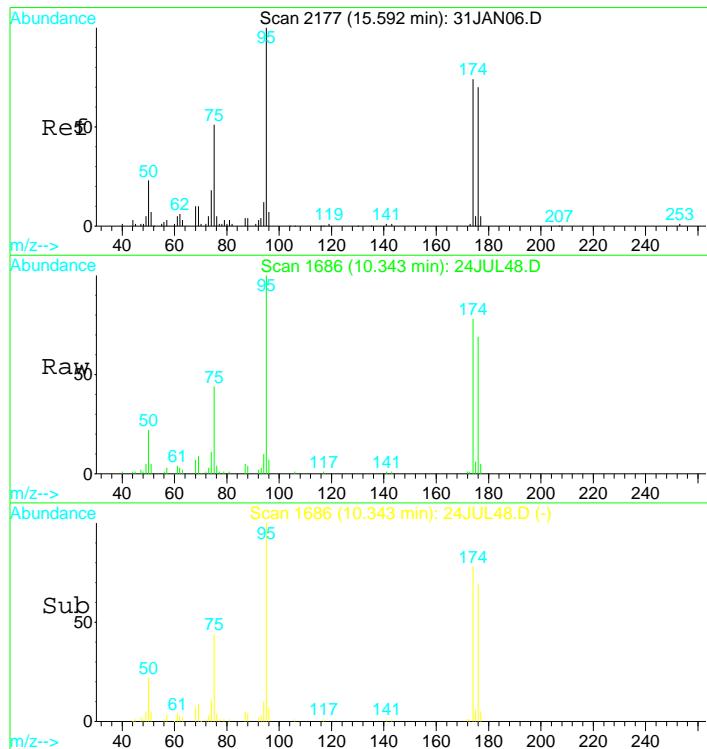
#43
 P+m-Xylene
 Concen: 0.13 ug/L
 RT: 9.77 min Scan# 1575
 Delta R.T. 0.01 min
 Lab File: 24JUL48.D
 Acq: 24 Jul 2017 10:44 pm



Tgt Ion:106 Resp: 2356
 Ion Ratio Lower Upper
 106 100
 91 182.4 135.0 250.6
 92 0.0 10.3 19.1#

Abundance Ion 106.10 (105.60 to 106.60): 24JUL48.
 Ion 91.10 (90.60 to 91.60): 24JUL48.D
 Ion 92.10 (91.60 to 92.60): 24JUL48.D

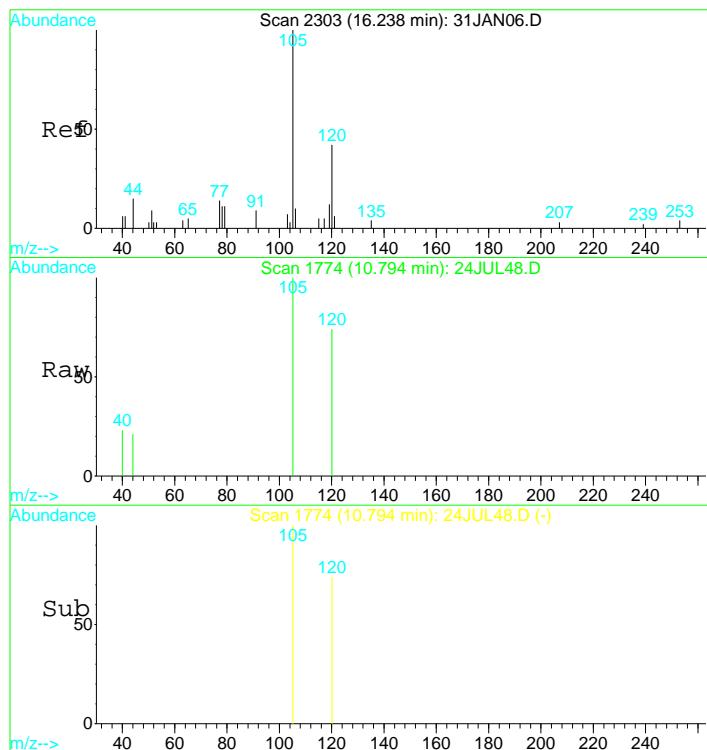
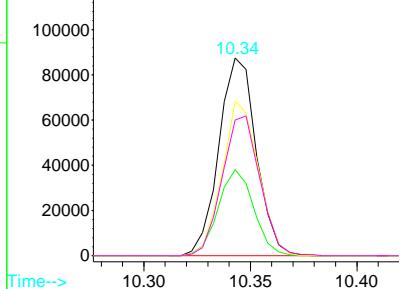




#49
 Bromofluorobenzene SMC#3
 Concen: N.D. ug/L
 RT: 10.34 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: 24JUL48.D
 Acq: 24 Jul 2017 10:44 pm

Tgt Ion: 95 Resp: 106948
 Ion Ratio Lower Upper
 95 100
 75 41.5 29.5 54.7
 174 76.0 52.3 97.1
 176 71.3 49.6 92.2

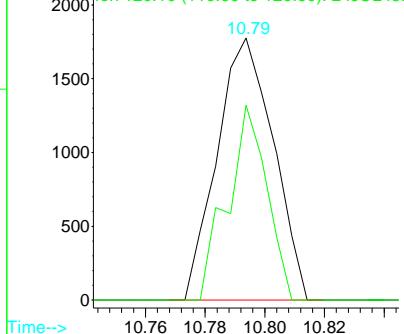
Abundance
 Ion 95.00 (94.50 to 95.50): 24JUL48.D
 Ion 75.00 (74.50 to 75.50): 24JUL48.D
 Ion 173.90 (173.40 to 174.40): 24JUL48.D
 Ion 175.90 (175.40 to 176.40): 24JUL48.D



#57
 1,2,4-trimethylbenzene
 Concen: 0.07 ug/L
 RT: 10.79 min Scan# 1774
 Delta R.T. 0.00 min
 Lab File: 24JUL48.D
 Acq: 24 Jul 2017 10:44 pm

Tgt Ion: 105 Resp: 2327
 Ion Ratio Lower Upper
 105 100
 120 51.8 31.8 59.0

Abundance
 Ion 105.10 (104.60 to 105.60): 24JUL48.D
 Ion 120.10 (119.60 to 120.60): 24JUL48.D



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL48.D Vial: 48
Acq On : 24 Jul 2017 10:44 pm Operator: MGC
Sample : 1719853-06 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00

MS Integration Params: rteint.p
Quant Time: Jul 25 12:19 2017

Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

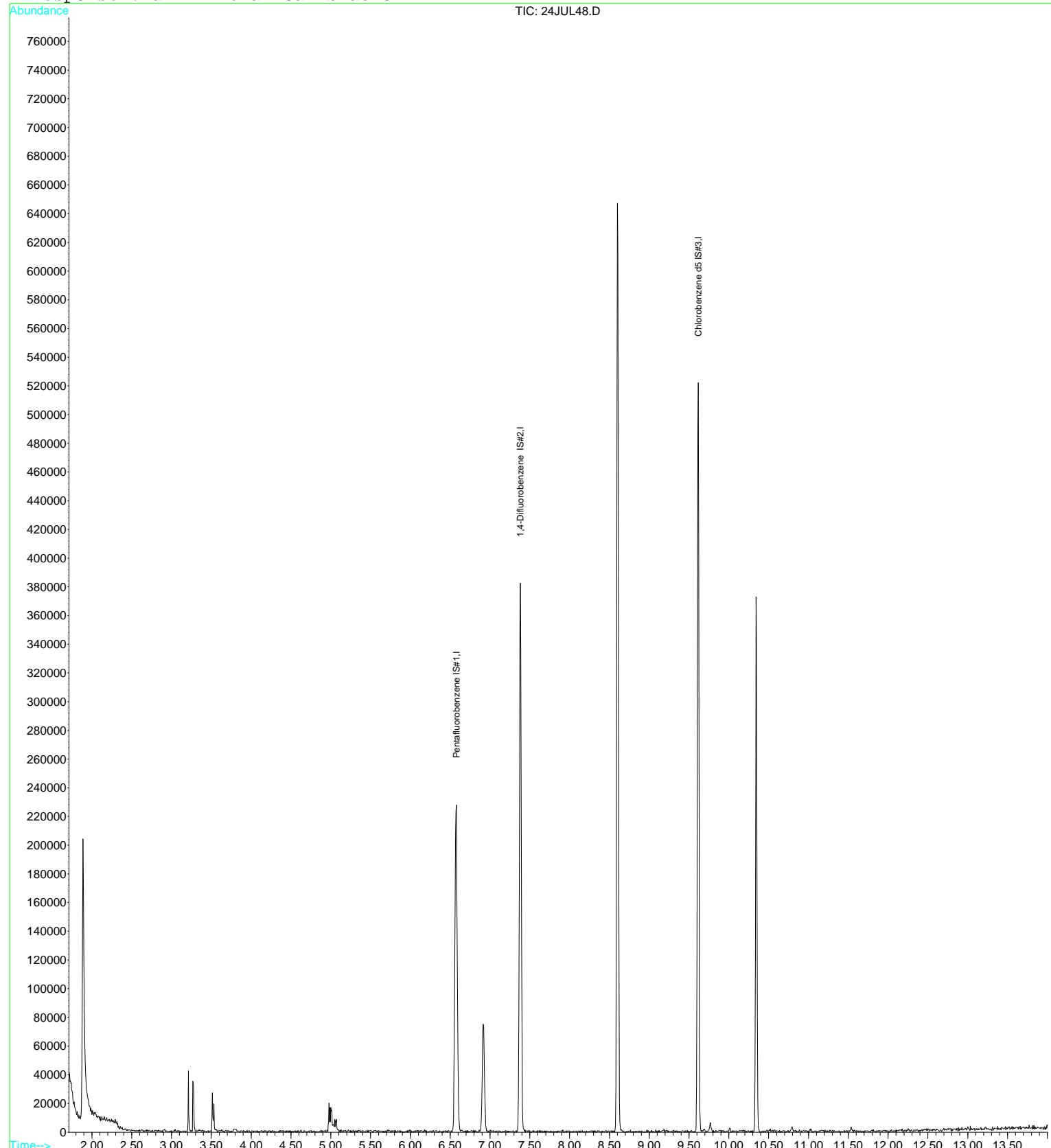
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Pentafluorobenzene IS#1	6.58	168	183079	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	281507	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	74220	10.00	ug/L	0.00

Target Compounds	Qvalue
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Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL48.D Vial: 48
Acq On : 24 Jul 2017 10:44 pm Operator: MGC
Sample : 1719853-06 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:19 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL49.D Vial: 49
 Acq On : 24 Jul 2017 11:07 pm Operator: MGC
 Sample : 1719853-07 Inst : MS-V5
 Misc : 1 ;25ML;pH=1 Multipllr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 25 12:01 2017

Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)

Title : EPA Method 624/524.2/8260

Last Update : Thu Jul 20 11:28:22 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	185183	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	291525	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	73837	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	51755	9.57	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	95.70%
31) Toluene d8 SMC#2	8.60	98	348491	9.68	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	96.80%
49) Bromofluorobenzene SMC#3	10.34	95	109982	9.98	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	99.80%

Target Compounds				Qvalue
43) P+m-Xylene	9.76	106	1788	0.10 ug/L # 82

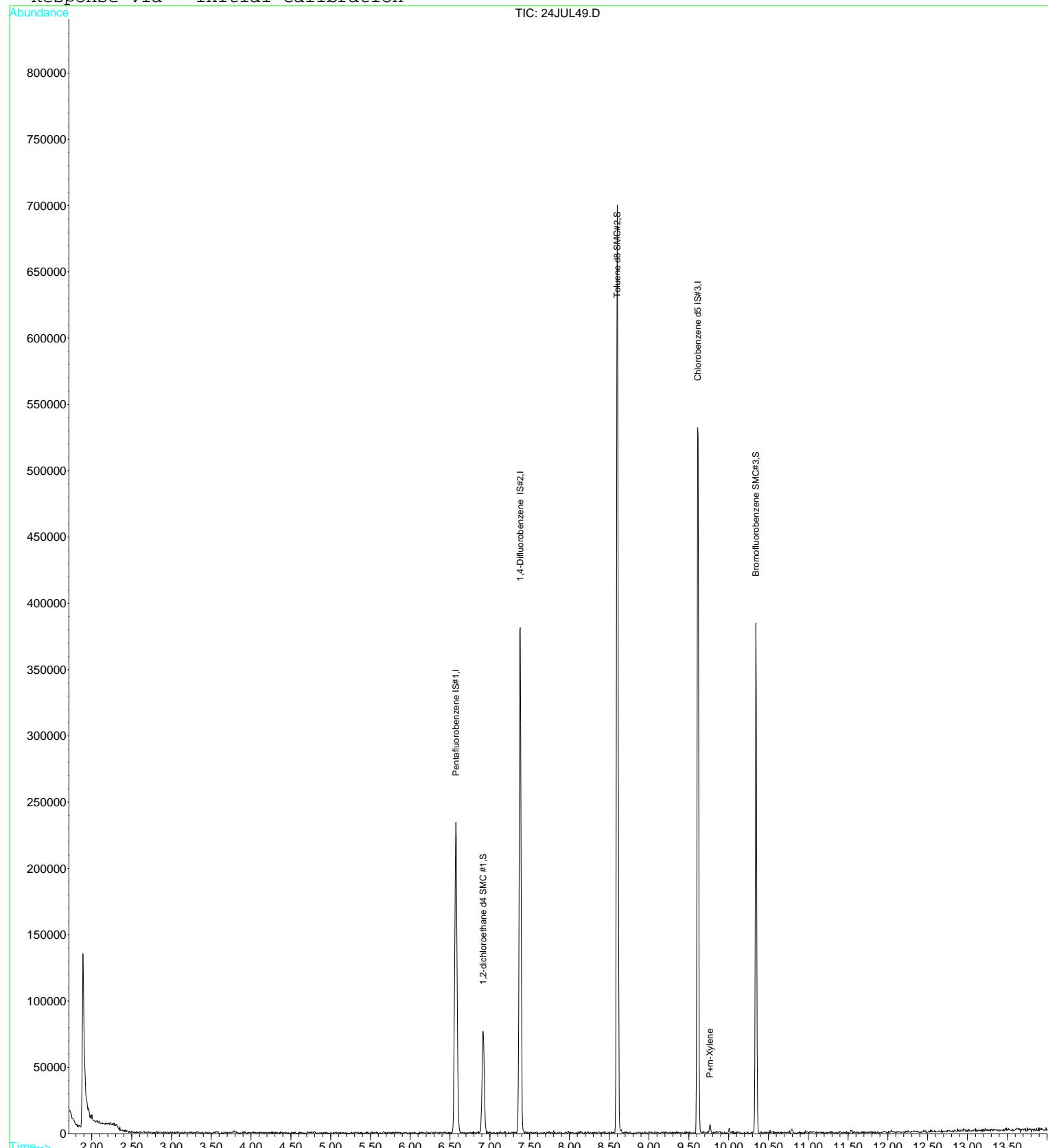
(#= qualifier out of range (m)= manual integration

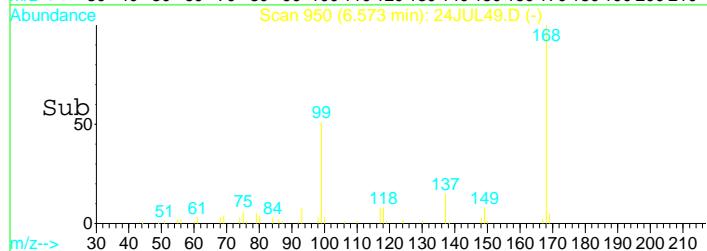
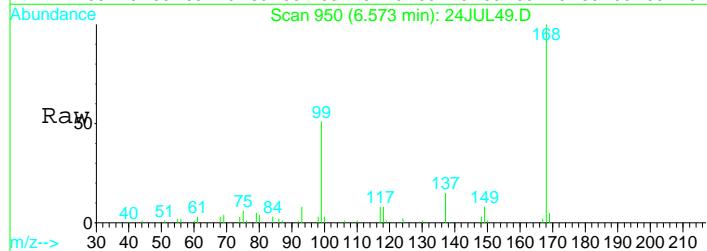
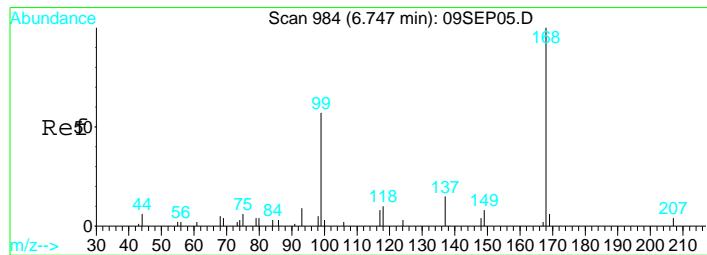
24JUL49.D 82605.M Tue Jul 25 12:06:55 2017

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL49.D Vial: 49
Acq On : 24 Jul 2017 11:07 pm Operator: MGC
Sample : 1719853-07 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:01 2017 Quant Results File: 82605.RES

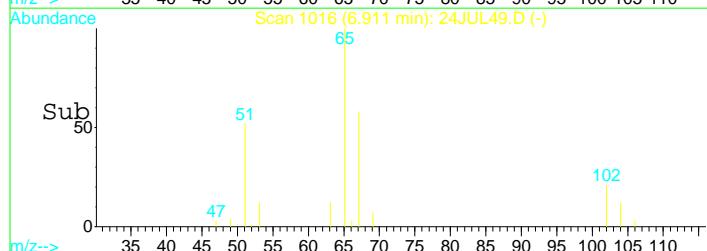
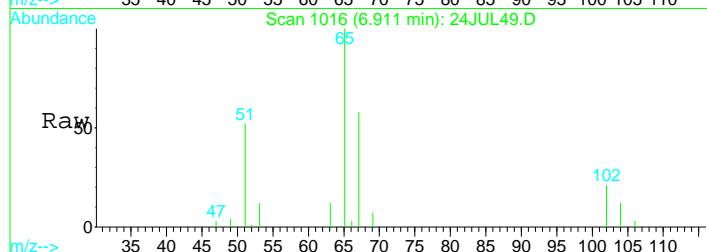
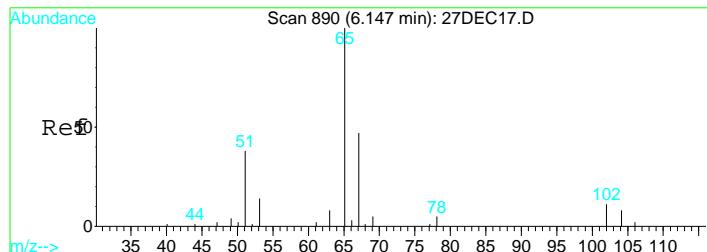
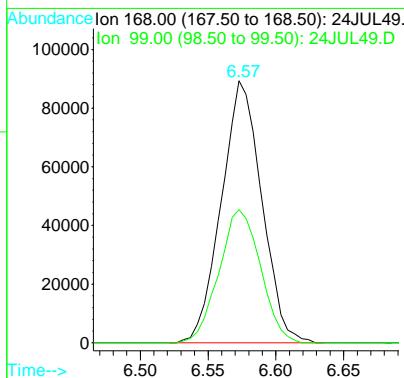
Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration





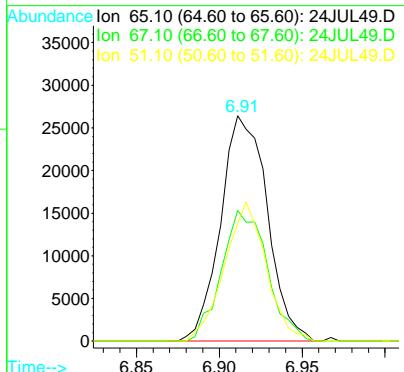
#1
 Pentafluorobenzene IS#1
 Concen: 10.00 ug/L
 RT: 6.57 min Scan# 950
 Delta R.T. -0.00 min
 Lab File: 24JUL49.D
 Acq: 24 Jul 2017 11:07 pm

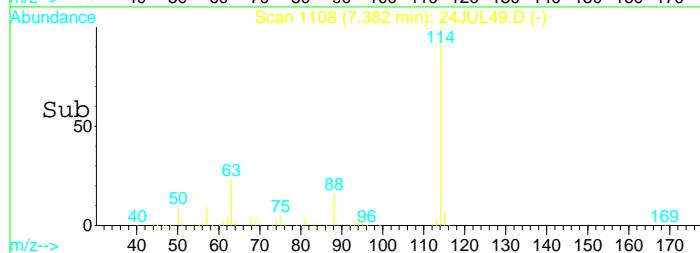
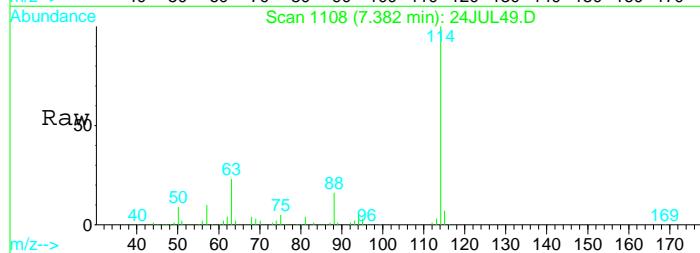
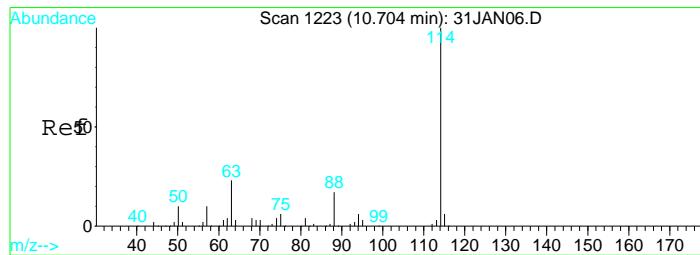
Tgt Ion: 168 Resp: 185183
 Ion Ratio Lower Upper
 168 100
 99 52.1 38.7 71.9



#21
 1,2-dichloroethane d4 SMC #1
 Concen: N.D. ug/L
 RT: 6.91 min Scan# 1016
 Delta R.T. -0.00 min
 Lab File: 24JUL49.D
 Acq: 24 Jul 2017 11:07 pm

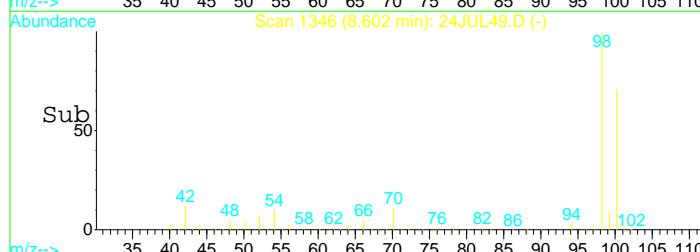
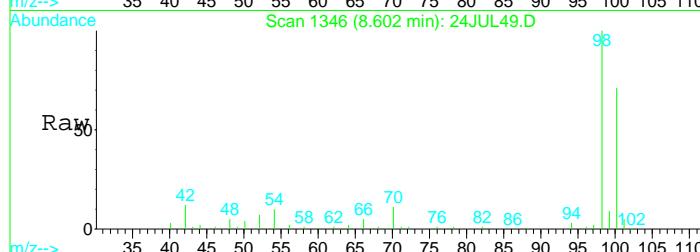
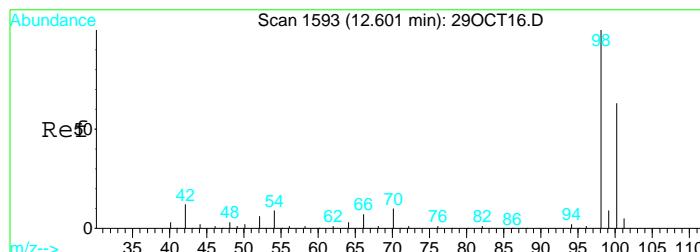
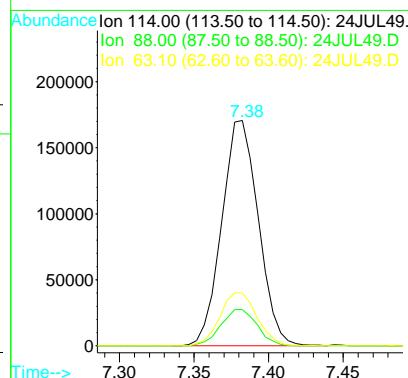
Tgt Ion: 65 Resp: 51755
 Ion Ratio Lower Upper
 65 100
 67 57.0 36.2 67.2
 51 55.2 42.0 78.0





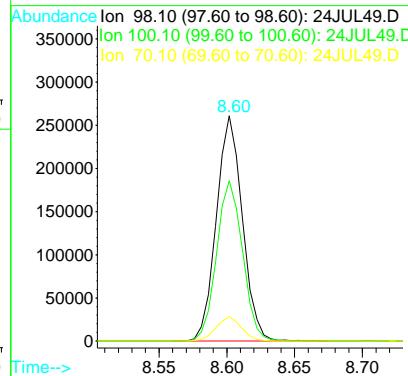
#24
 1, 4-Difluorobenzene IS#2
 Concen: 10.00 ug/L
 RT: 7.38 min Scan# 1108
 Delta R.T. 0.00 min
 Lab File: 24JUL49.D
 Acq: 24 Jul 2017 11:07 pm

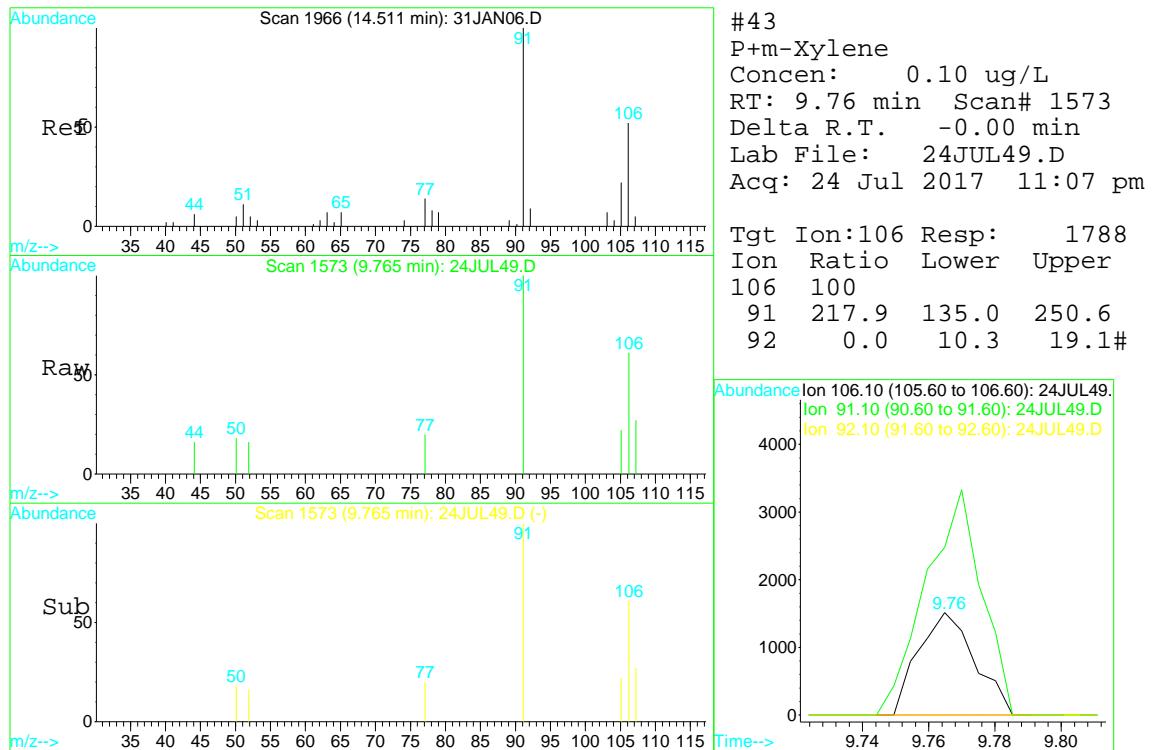
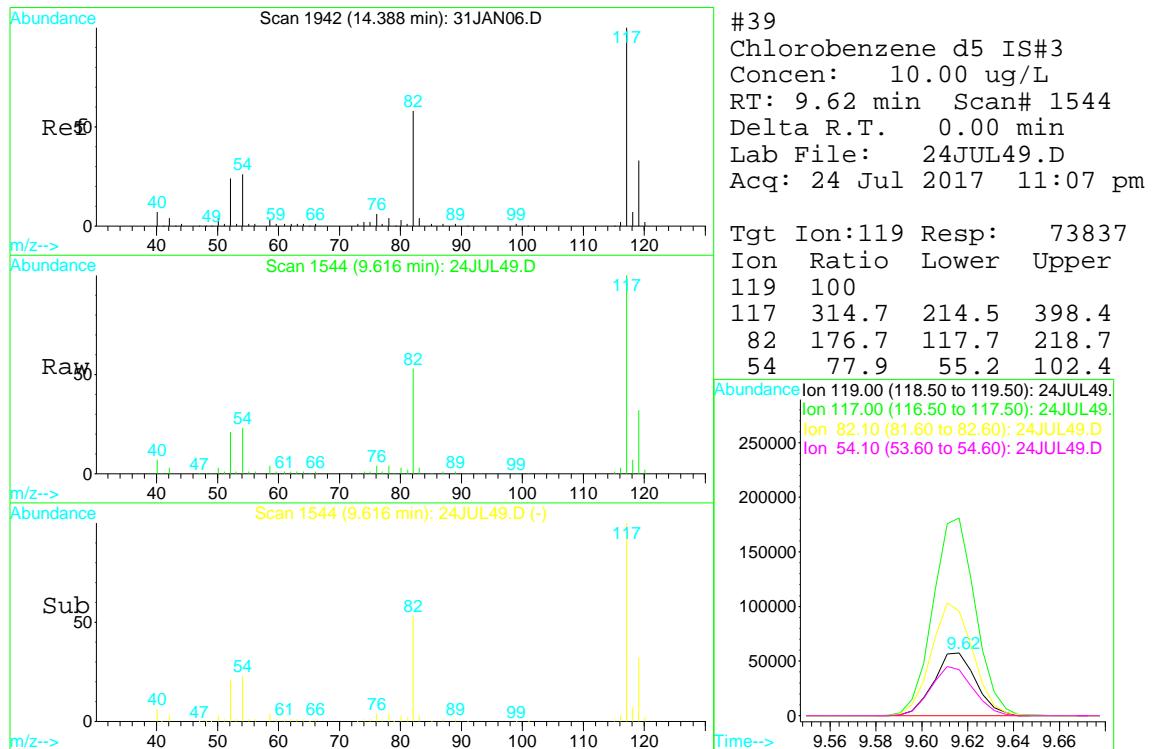
Tgt Ion: 114 Resp: 291525
 Ion Ratio Lower Upper
 114 100
 88 16.0 11.7 21.7
 63 23.9 16.7 30.9

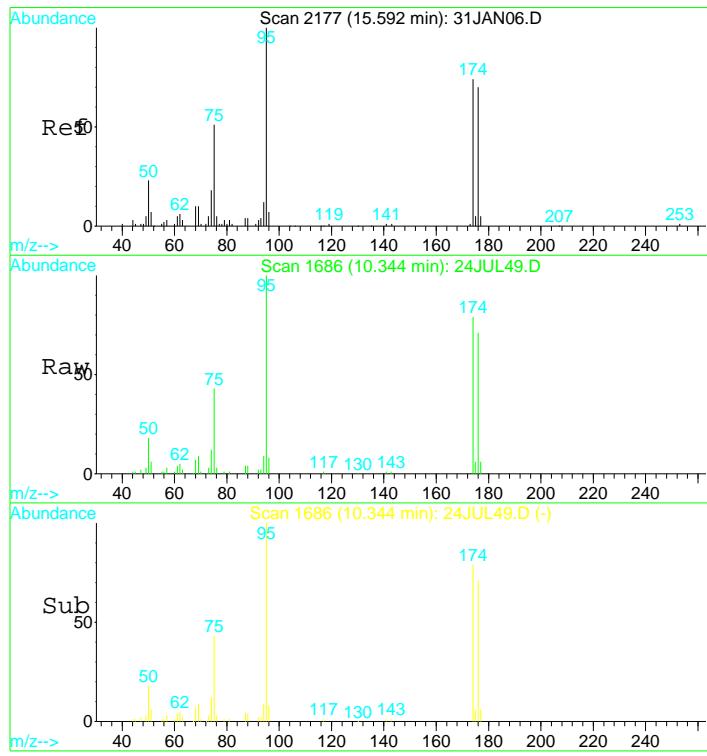


#31
 Toluene d8 SMC#2
 Concen: N.D. ug/L
 RT: 8.60 min Scan# 1346
 Delta R.T. 0.00 min
 Lab File: 24JUL49.D
 Acq: 24 Jul 2017 11:07 pm

Tgt Ion: 98 Resp: 348491
 Ion Ratio Lower Upper
 98 100
 100 71.0 49.7 92.3
 70 10.7 7.3 13.7







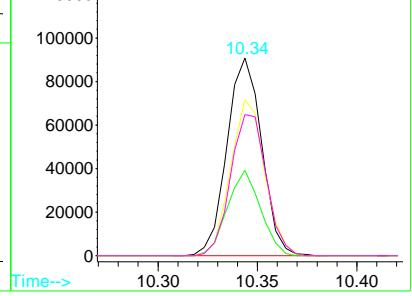
#49

Bromofluorobenzene SMC#3
 Concen: N.D. ug/L
 RT: 10.34 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: 24JUL49.D
 Acq: 24 Jul 2017 11:07 pm

Tgt Ion: 95 Resp: 109982

Ion	Ratio	Lower	Upper
95	100		
75	41.2	29.5	54.7
174	77.2	52.3	97.1
176	73.3	49.6	92.2

Abundance Ion 95.00 (94.50 to 95.50): 24JUL49.D
 Ion 75.00 (74.50 to 75.50): 24JUL49.D
 Ion 173.90 (173.40 to 174.40): 24JUL49.D
 Ion 175.90 (175.40 to 176.40): 24JUL49.D



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL49.D Vial: 49
Acq On : 24 Jul 2017 11:07 pm Operator: MGC
Sample : 1719853-07 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00

MS Integration Params: rteint.p
Quant Time: Jul 25 12:19 2017

Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

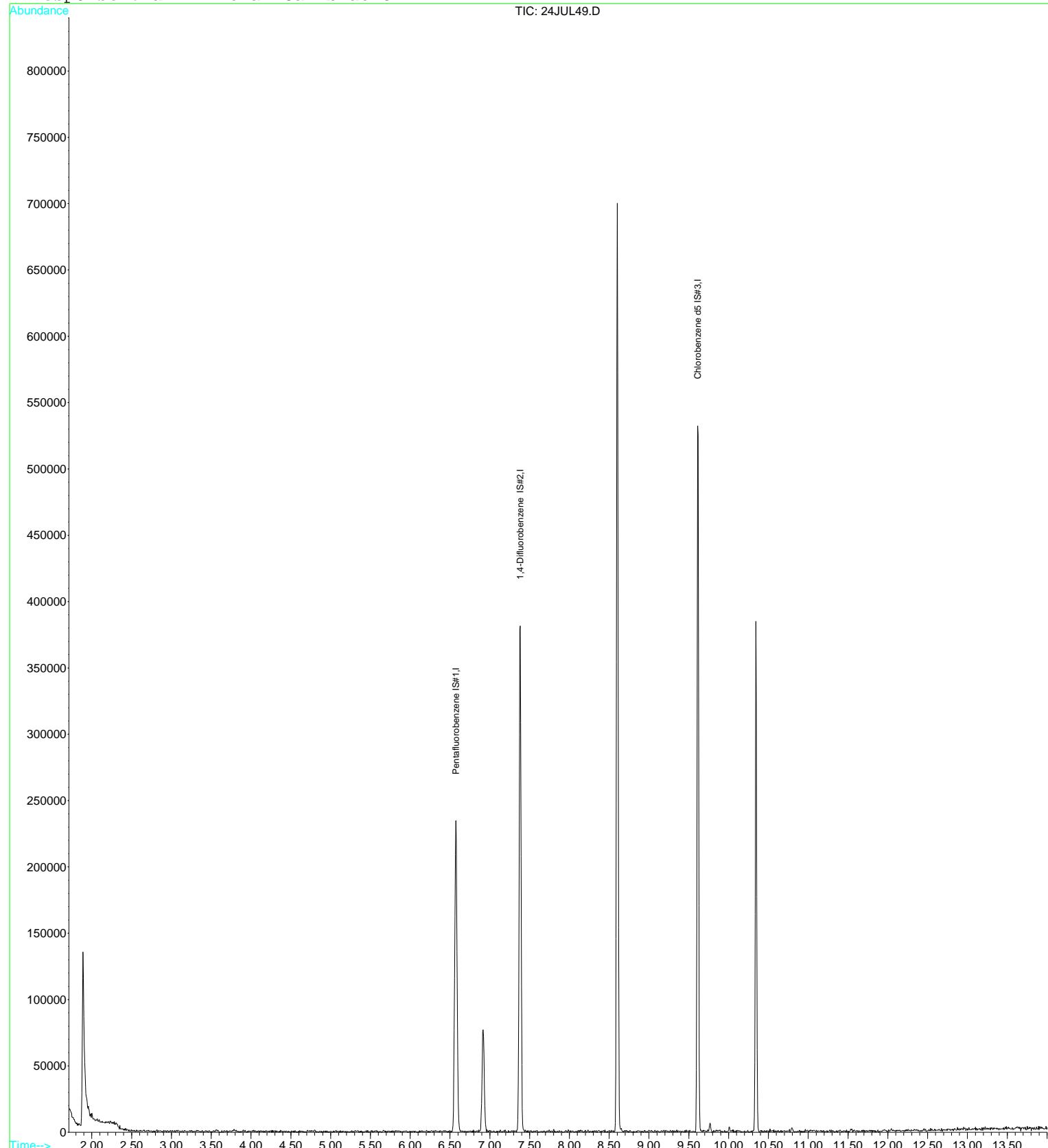
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Pentafluorobenzene IS#1	6.57	168	185183	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	291525	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	73837	10.00	ug/L	0.00

Target Compounds	Qvalue
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Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL49.D Vial: 49
Acq On : 24 Jul 2017 11:07 pm Operator: MGC
Sample : 1719853-07 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:19 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration





Laboratories, Inc.

Environmental Testing Laboratory Since 1949



Raw Data - Calibration Standards

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL03.D Vial: 3
 Acq On : 20 Jul 2017 8:32 am Operator: MGC
 Sample : 1712752-CAL1 Inst : MS-V5
 Misc : 1 VO-109-70507;25ML Multipllr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 8:46 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Wed Jul 12 08:31:09 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	217011	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	336200	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	90897	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	65374	10.06	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	100.60%
31) Toluene d8 SMC#2	8.60	98	410267	9.86	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	98.60%
49) Bromofluorobenzene SMC#3	10.35	95	130298	9.68	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	96.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.76	85	4360	0.36	ug/L	90
3) Chloromethane	1.94	50	11998	0.58	ug/L	99
4) Vinyl chloride	2.07	62	8395	0.50	ug/L	# 69
5) Bromomethane	2.43	94	4401	0.93	ug/L	# 72
6) Chloroethane	2.57	64	6138	0.57	ug/L	93
7) Trichlorofluoromethane	2.86	101	6131	0.41	ug/L	# 76
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	4044	0.42	ug/L	# 84
9) 1,1-Dichloroethene	3.52	61	8614	0.47	ug/L	97
10) Methylene chloride	4.15	84	7409	0.78	ug/L	98
11) MTBE	4.49	73	6455	0.57	ug/L	85
12) T-1,2-dichloroethene	4.51	96	5712	0.50	ug/L	94
13) 1,1-Dichloroethane	5.05	63	12242	0.53	ug/L	100
14) 2,2-Dichloropropane	5.83	77	6502	3.22	ug/L	# 1
15) Cis-1,2-dichloroethene	5.83	96	5837	0.52	ug/L	89
16) Bromochloromethane	6.18	128	1853	0.51	ug/L	# 88
17) Chloroform	6.32	83	8555	0.51	ug/L	100
18) 1,1,1-Trichloroethane	6.53	97	6787	0.54	ug/L	# 53
19) 1,1-Dichloropropene	6.73	75	7443	0.48	ug/L	94
20) Carbon tetrachloride	6.71	119	4464	1.80	ug/L	# 74
22) 1,2-Dichloroethane	6.99	62	4167	0.45	ug/L	# 99
23) Benzene	6.93	78	23929	0.53	ug/L	87
25) Trichloroethene	7.60	130	5562	0.45	ug/L	88
26) 1,2-Dichloropropane	7.84	63	6298	0.50	ug/L	# 96
27) Dibromomethane	7.90	93	1490	0.46	ug/L	# 73
28) Bromodichloromethane	8.06	83	4855	0.54	ug/L	90
29) 2-ceve	8.28	63	6159	1.92	ug/L	# 95
30) Cis-1,3-dichloropropene	8.39	75	5596	1.85	ug/L	# 87
32) Toluene	8.65	92	15200	0.50	ug/L	80
33) Trans-1,3-dichloropropene	8.82	75	3122	2.84	ug/L	85
34) 1,1,2-Trichloroethane	8.96	97	2429	0.48	ug/L	92
35) Tetrachloroethene (PCE)	9.03	166	5719	0.51	ug/L	# 87
36) 1,3-Dichloropropane	9.08	76	4332	0.53	ug/L	# 81
37) Dibromochloromethane	9.24	129	2321	2.09	ug/L	# 85
38) 1,2-Dibromoethane	9.32	107	2337	1.18	ug/L	69
40) Chlorobenzene	9.63	112	16901	0.56	ug/L	95
41) 1,1,1,2-Tetrachloroethane	9.69	131	3340	0.98	ug/L	# 70
42) Ethylbenzene	9.69	106	8787	0.49	ug/L	85
43) P+m-Xylene	9.77	106	24229	1.12	ug/L	95
44) O-Xylene	10.01	106	9945	0.50	ug/L	93
45) Styrene	10.02	104	15101	0.50	ug/L	92
46) Bromoform	10.16	173	935	3.01	ug/L	# 100
47) Isopropylbenzene	10.23	105	27332	0.53	ug/L	96
48) 1,1,2,2-Tetrachloroethane	10.41	83	2268	0.45	ug/L	86
50) 1,2,3-Trichloropropane	10.45	110	229	Below Cal	#	100
51) n-propylbenzene	10.47	91	35646	0.54	ug/L	92

(#) = qualifier out of range (m) = manual integration

20JUL03.D 82605.M Thu Jul 20 10:17:26 2017

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL03.D Vial: 3
 Acq On : 20 Jul 2017 8:32 am Operator: MGC
 Sample : 1712752-CAL1 Inst : MS-V5
 Misc : 1 VO-109-70507;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 8:46 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Wed Jul 12 08:31:09 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) bromobenzene	10.44	156	5541	0.53	ug/L	79
53) 1,3,5-trimethylbenzene	10.58	105	22586	0.53	ug/L	95
54) 2-chlorotoluene	10.54	91	21303	0.51	ug/L	94
55) 4-chlorotoluene	10.61	91	19917	0.51	ug/L	87
56) tert-butylbenzene	10.77	119	21617	0.49	ug/L	98
57) 1,2,4-trimethylbenzene	10.80	105	22333	0.53	ug/L	97
58) sec-butylbenzene	10.89	105	30496	0.53	ug/L	98
59) 4-isopropyltoluene	10.97	119	25793	0.55	ug/L	98
60) 1,3-Dichlorobenzene	10.98	146	11500	0.50	ug/L	94
61) 1,4-Dichlorobenzene	11.03	146	10889	0.47	ug/L	95
62) n-butylbenzene	11.20	91	23084	0.53	ug/L	99
63) 1,2-Dichlorobenzene	11.24	146	10212	0.52	ug/L	96
64) Hexachloroethane	11.40	117	2279	3.97	ug/L #	6
66) 1,2,4-trichlorobenzene	12.11	180	5686	0.55	ug/L	94
67) hexachlorobutadiene	12.17	225	4421	0.57	ug/L #	70
68) naphthalene	12.26	128	6587	0.53	ug/L	100
69) 1,2,3-trichlorobenzene	12.38	180	4987	0.63	ug/L	96

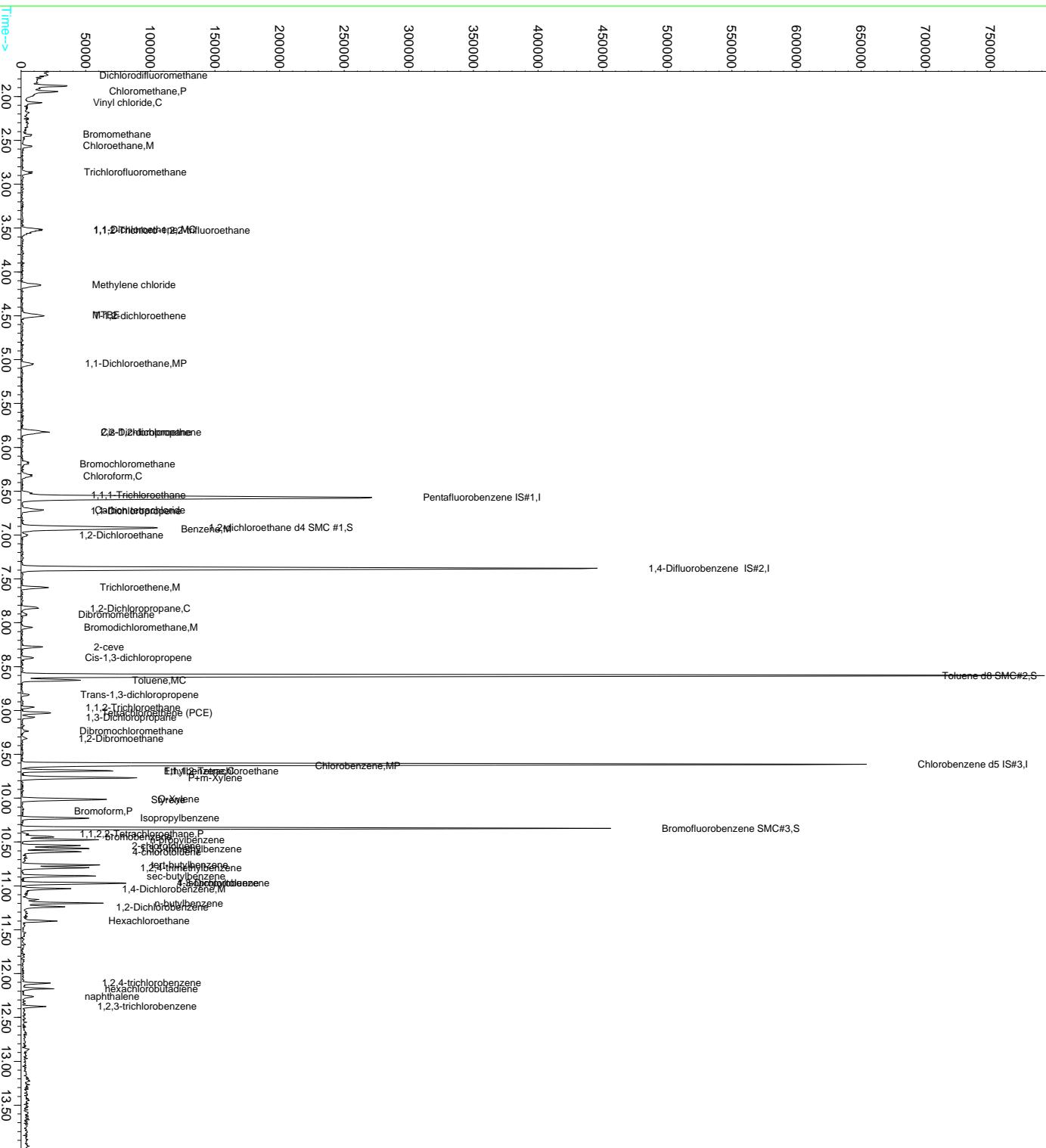
(#) = qualifier out of range (m) = manual integration
 20JUL03.D 82605.M Thu Jul 20 10:17:26 2017

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL03.D Vial: 3
 Acq On : 20 Jul 2017 8:32 am Operator: MGC
 Sample : 1712752-CAL1 Inst : MS-V5
 Misc : 1 VO-109-70507;25ML Multipl: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 8:46 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Wed Jul 12 08:31:09 2017
 Response via : Initial Calibration

TIC: 20JUL03.D



Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL05.D Vial: 5
 Acq On : 20 Jul 2017 9:18 am Operator: MGC
 Sample : 1712752-CAL2 Inst : MS-V5
 Misc : 1 VO-109-70508;25ML Multipllr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 10:19 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Wed Jul 12 08:31:09 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	219386	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	341653	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	89283	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	66214	10.08	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	100.80%
31) Toluene d8 SMC#2	8.60	98	421815	9.98	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	99.80%
49) Bromofluorobenzene SMC#3	10.34	95	133853	10.12	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	101.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.76	85	10205	0.84	ug/L
3) Chloromethane	1.95	50	21928	1.05	ug/L
4) Vinyl chloride	2.07	62	17214	1.01	ug/L #
5) Bromomethane	2.44	94	8855	1.39	ug/L #
6) Chloroethane	2.57	64	12085	1.10	ug/L
7) Trichlorofluoromethane	2.87	101	13464	0.88	ug/L #
8) 1,1,2-Trichloro-1,2,2-trif	3.54	101	8620	0.88	ug/L #
9) 1,1-Dichloroethene	3.52	61	18131	0.97	ug/L
10) Methylene chloride	4.15	84	10296	1.07	ug/L
11) MTBE	4.49	73	13643	1.20	ug/L
12) T-1,2-dichloroethene	4.50	96	10984	0.96	ug/L
13) 1,1-Dichloroethane	5.05	63	23710	1.01	ug/L
14) 2,2-Dichloropropane	5.83	77	12259	3.73	ug/L #
15) Cis-1,2-dichloroethene	5.82	96	12328	1.10	ug/L #
16) Bromochloromethane	6.17	128	3878	1.06	ug/L #
17) Chloroform	6.33	83	17811	1.05	ug/L
18) 1,1,1-Trichloroethane	6.52	97	14284	1.11	ug/L #
19) 1,1-Dichloropropene	6.72	75	15992	1.02	ug/L
20) Carbon tetrachloride	6.71	119	8848	2.24	ug/L #
22) 1,2-Dichloroethane	7.00	62	9765	1.04	ug/L #
23) Benzene	6.93	78	48005	1.05	ug/L #
25) Trichloroethene	7.61	130	11662	0.94	ug/L
26) 1,2-Dichloropropane	7.83	63	13360	1.04	ug/L #
27) Dibromomethane	7.91	93	3278	0.99	ug/L #
28) Bromodichloromethane	8.05	83	8927	0.97	ug/L
29) 2-ceve	8.28	63	12934	3.96	ug/L
30) Cis-1,3-dichloropropene	8.40	75	11335	2.29	ug/L #
32) Toluene	8.65	92	29659	0.96	ug/L
33) Trans-1,3-dichloropropene	8.82	75	7084	3.30	ug/L
34) 1,1,2-Trichloroethane	8.97	97	5837	1.15	ug/L
35) Tetrachloroethene (PCE)	9.03	166	11556	1.01	ug/L #
36) 1,3-Dichloropropane	9.08	76	9108	1.10	ug/L
37) Dibromochloromethane	9.23	129	4037	2.38	ug/L #
38) 1,2-Dibromoethane	9.32	107	3858	1.51	ug/L
40) Chlorobenzene	9.64	112	31301	1.05	ug/L
41) 1,1,1,2-Tetrachloroethane	9.69	131	6727	1.47	ug/L #
42) Ethylbenzene	9.69	106	18778	1.06	ug/L
43) P+m-Xylene	9.77	106	44367	2.09	ug/L
44) O-Xylene	10.01	106	19724	1.01	ug/L
45) Styrene	10.02	104	31371	1.05	ug/L
46) Bromoform	10.16	173	1829	3.38	ug/L #
47) Isopropylbenzene	10.23	105	55335	1.09	ug/L
48) 1,1,2,2-Tetrachloroethane	10.41	83	4868	0.99	ug/L
50) 1,2,3-Trichloropropane	10.45	110	833	0.51	ug/L #
51) n-propylbenzene	10.47	91	67596	1.04	ug/L

(#= qualifier out of range (m) = manual integration

20JUL05.D 82605.M Thu Jul 20 10:19:25 2017

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL05.D Vial: 5
 Acq On : 20 Jul 2017 9:18 am Operator: MGC
 Sample : 1712752-CAL2 Inst : MS-V5
 Misc : 1 VO-109-70508;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 10:19 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Wed Jul 12 08:31:09 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) bromobenzene	10.44	156	10864	1.06	ug/L	85
53) 1,3,5-trimethylbenzene	10.57	105	42696	1.01	ug/L	97
54) 2-chlorotoluene	10.54	91	46110	1.12	ug/L	98
55) 4-chlorotoluene	10.61	91	40015	1.04	ug/L	95
56) tert-butylbenzene	10.76	119	41937	0.98	ug/L	96
57) 1,2,4-trimethylbenzene	10.79	105	45106	1.10	ug/L	95
58) sec-butylbenzene	10.89	105	59925	1.06	ug/L	100
59) 4-isopropyltoluene	10.97	119	48357	1.05	ug/L	99
60) 1,3-Dichlorobenzene	10.98	146	23254	1.02	ug/L	93
61) 1,4-Dichlorobenzene	11.03	146	22114m	0.98	ug/L	
62) n-butylbenzene	11.20	91	45926	1.08	ug/L	97
63) 1,2-Dichlorobenzene	11.24	146	19114	1.00	ug/L	96
64) Hexachloroethane	11.40	117	4247	4.26	ug/L #	15
65) 1,2-dibromo-3-chloropropan	11.66	75	581	4.25	ug/L #	100
66) 1,2,4-trichlorobenzene	12.11	180	10744	1.07	ug/L	92
67) hexachlorobutadiene	12.18	225	7178	0.95	ug/L	87
68) naphthalene	12.26	128	11563	0.95	ug/L	100
69) 1,2,3-trichlorobenzene	12.38	180	8903	1.14	ug/L	99

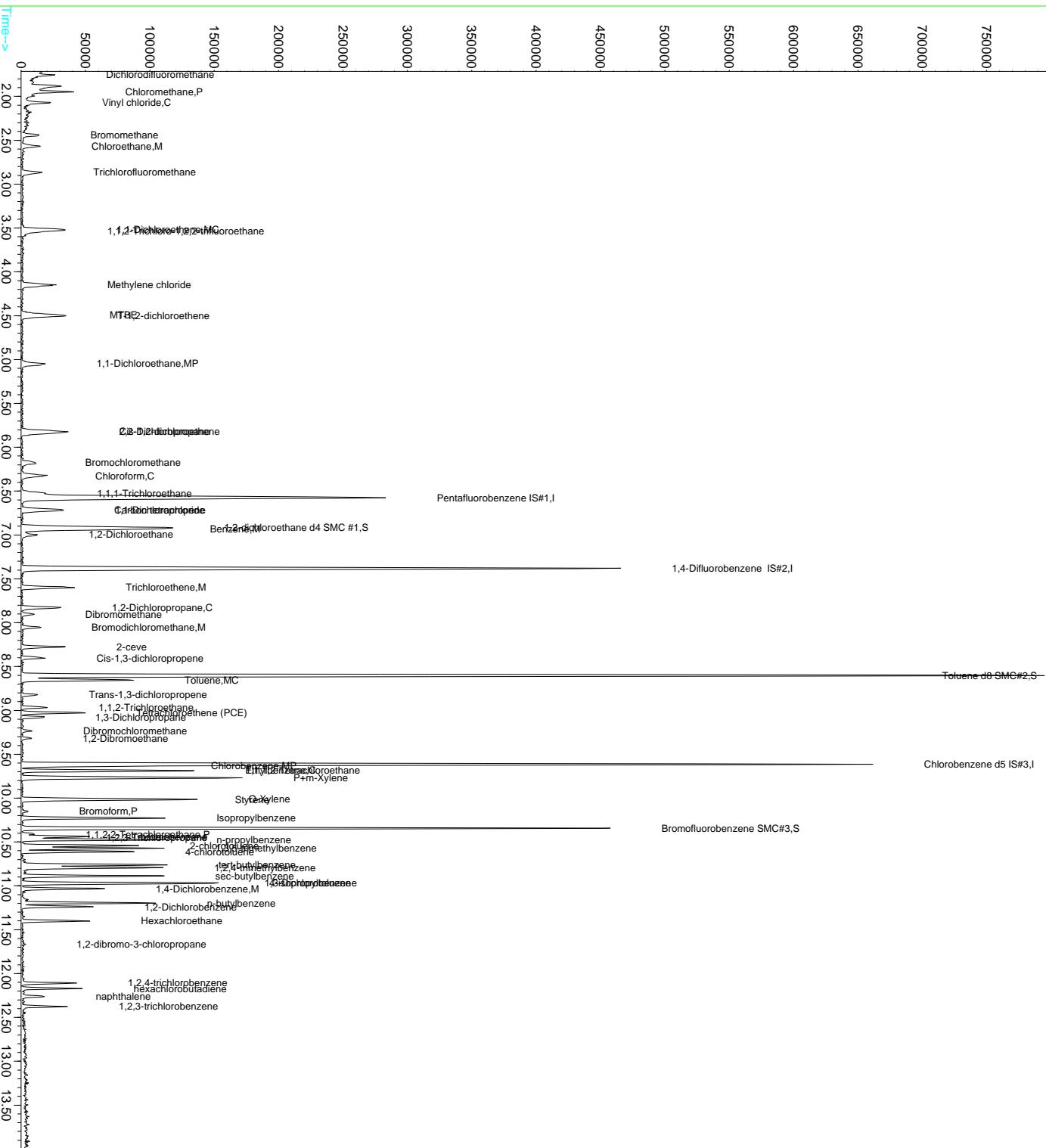
(#) = qualifier out of range (m) = manual integration
 20JUL05.D 82605.M Thu Jul 20 10:19:25 2017

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL05.D Vial: 5
 Acq On : 20 Jul 2017 9:18 am Operator: MGC
 Sample : 1712752-CAL2 Inst: MS-V5
 Misc : 1 VO-109-70508;25ML Multipl: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 10:19 2017
 Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\8260 (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Wed Jul 12 08:31:09 2017
 Response via : Initial Calibration

Abundance

TIC: 20JUL05.D



Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL06.D Vial: 6
 Acq On : 20 Jul 2017 9:42 am Operator: MGC
 Sample : 1712752-CAL3 Inst : MS-V5
 Misc : 1 VO-109-70509;25ML Multipllr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 9:56 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Wed Jul 12 08:31:09 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	160100	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	249503	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	66101	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	47251	9.86	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	98.60%
31) Toluene d8 SMC#2	8.60	98	305363	9.89	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	98.90%
49) Bromofluorobenzene SMC#3	10.34	95	99307	10.14	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	101.40%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.76	85	93410	10.56	ug/L
3) Chloromethane	1.95	50	157755	10.37	ug/L
4) Vinyl chloride	2.07	62	127041	10.21	ug/L
5) Bromomethane	2.44	94	67152	10.11	ug/L
6) Chloroethane	2.57	64	86319	10.80	ug/L
7) Trichlorofluoromethane	2.87	101	107360	9.66	ug/L
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	76401	10.68	ug/L
9) 1,1-Dichloroethene	3.52	61	141074	10.35	ug/L
10) Methylene chloride	4.15	84	73501	10.52	ug/L
11) MTBE	4.48	73	100477	12.07	ug/L
12) T-1,2-dichloroethene	4.50	96	85020	10.16	ug/L
13) 1,1-Dichloroethane	5.05	63	180828	10.54	ug/L
14) 2,2-Dichloropropane	5.83	77	102464	15.11	ug/L
15) Cis-1,2-dichloroethene	5.82	96	85789	10.46	ug/L
16) Bromochloromethane	6.17	128	27302	10.21	ug/L
17) Chloroform	6.33	83	124834	10.10	ug/L
18) 1,1,1-Trichloroethane	6.53	97	109656	11.72	ug/L
19) 1,1-Dichloropropene	6.72	75	116536	10.14	ug/L
20) Carbon tetrachloride	6.71	119	77032	12.04	ug/L
22) 1,2-Dichloroethane	7.00	62	70301	10.30	ug/L
23) Benzene	6.94	78	348744	10.48	ug/L
25) Trichloroethene	7.60	130	89913	9.88	ug/L
26) 1,2-Dichloropropane	7.83	63	97205	10.36	ug/L
27) Dibromomethane	7.91	93	25725	10.65	ug/L
28) Bromodichloromethane	8.05	83	73643	10.96	ug/L
29) 2-ceve	8.27	63	104717	43.90	ug/L
30) Cis-1,3-dichloropropene	8.40	75	92090	11.19	ug/L
32) Toluene	8.65	92	234614	10.35	ug/L
33) Trans-1,3-dichloropropene	8.82	75	61028	12.36	ug/L
34) 1,1,2-Trichloroethane	8.96	97	40551	10.91	ug/L
35) Tetrachloroethene (PCE)	9.03	166	86256	10.34	ug/L
36) 1,3-Dichloropropane	9.08	76	62221	10.30	ug/L
37) Dibromochloromethane	9.24	129	37739	10.50	ug/L
38) 1,2-Dibromoethane	9.32	107	34074	10.91	ug/L
40) Chlorobenzene	9.64	112	223358	10.12	ug/L
41) 1,1,1,2-Tetrachloroethane	9.69	131	55627	11.02	ug/L
42) Ethylbenzene	9.69	106	136417	10.36	ug/L
43) P+m-Xylene	9.77	106	342735	21.77	ug/L
44) O-Xylene	10.01	106	159918	11.03	ug/L
45) Styrene	10.02	104	239018	10.79	ug/L
46) Bromoform	10.15	173	15682	11.19	ug/L
47) Isopropylbenzene	10.23	105	416077	11.04	ug/L
48) 1,1,2,2-Tetrachloroethane	10.41	83	35710	9.83	ug/L
50) 1,2,3-Trichloropropane	10.45	110	7290	8.79	ug/L
51) n-propylbenzene	10.48	91	526001	10.88	ug/L

(#) = qualifier out of range (m) = manual integration

20JUL06.D 82605.M Thu Jul 20 10:19:54 2017

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL06.D Vial: 6
 Acq On : 20 Jul 2017 9:42 am Operator: MGC
 Sample : 1712752-CAL3 Inst : MS-V5
 Misc : 1 VO-109-70509;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 9:56 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Wed Jul 12 08:31:09 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) bromobenzene	10.44	156	77430	10.19	ug/L	92
53) 1,3,5-trimethylbenzene	10.57	105	346993	11.13	ug/L	98
54) 2-chlorotoluene	10.54	91	333425	10.98	ug/L	97
55) 4-chlorotoluene	10.61	91	306897	10.82	ug/L	91
56) tert-butylbenzene	10.76	119	322495	10.13	ug/L	95
57) 1,2,4-trimethylbenzene	10.79	105	335852	11.03	ug/L	99
58) sec-butylbenzene	10.89	105	468278	11.21	ug/L	98
59) 4-isopropyltoluene	10.97	119	378285	11.11	ug/L	98
60) 1,3-Dichlorobenzene	10.97	146	178686	10.59	ug/L	92
61) 1,4-Dichlorobenzene	11.03	146	170376	10.17	ug/L	95
62) n-butylbenzene	11.19	91	345036	10.94	ug/L	99
63) 1,2-Dichlorobenzene	11.23	146	148352	10.47	ug/L	97
64) Hexachloroethane	11.40	117	44652	12.34	ug/L #	1
65) 1,2-dibromo-3-chloropropan	11.66	75	4603	12.55	ug/L #	100
66) 1,2,4-trichlorobenzene	12.11	180	81142	10.87	ug/L	96
67) hexachlorobutadiene	12.17	225	56205	10.05	ug/L	85
68) naphthalene	12.26	128	107810	11.94	ug/L	100
69) 1,2,3-trichlorobenzene	12.38	180	69823	12.11	ug/L	98

(#) = qualifier out of range (m) = manual integration
 20JUL06.D 82605.M Thu Jul 20 10:19:54 2017

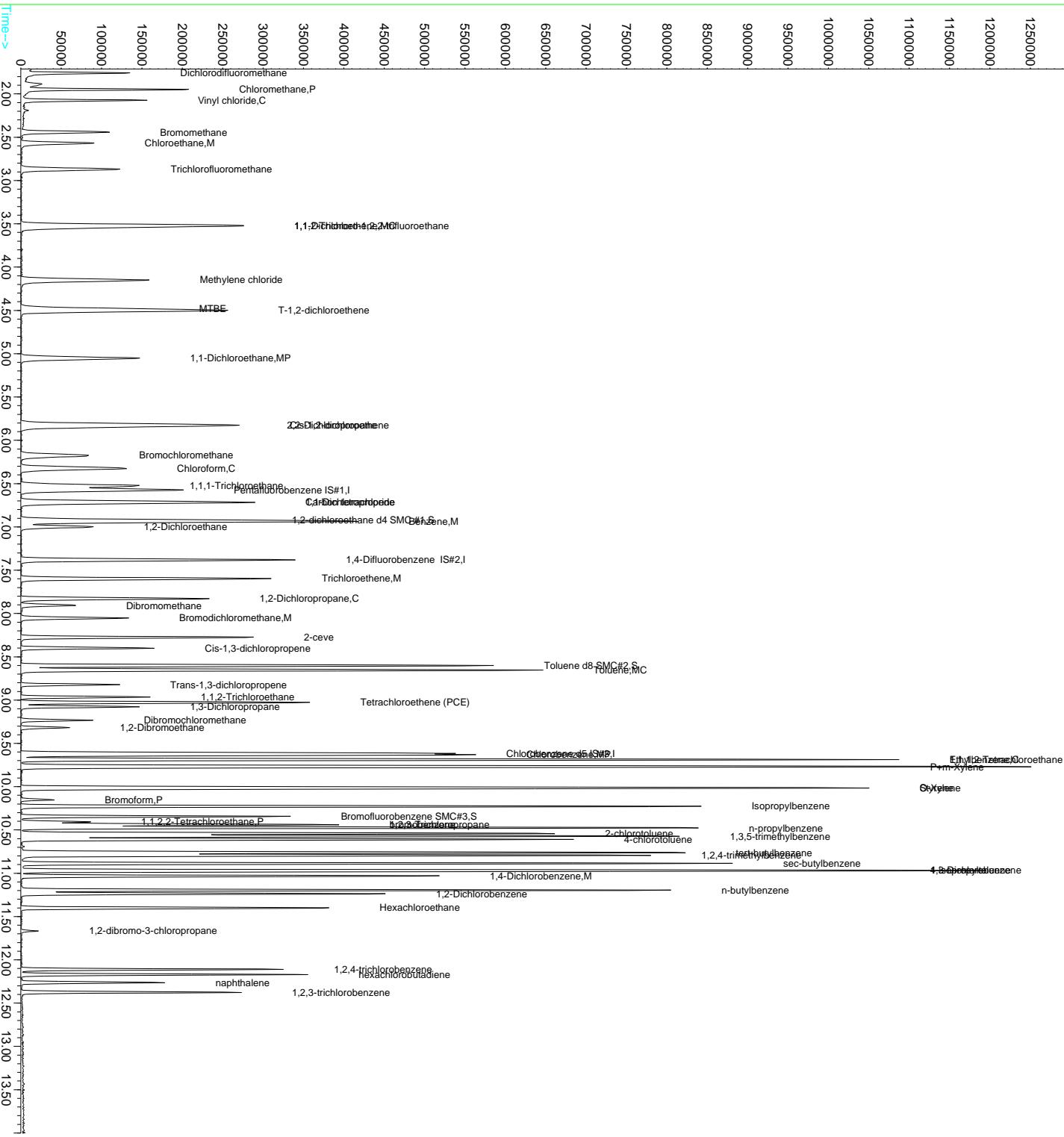
Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL06.D Vial: 6
 Acq On : 20 Jul 2017 9:42 am Operator: MGC
 Sample : 1712752-CAL3 Inst: MS-V5
 Misc : 1 VO-109-70509;25ML Multipl: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 9:56 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Wed Jul 12 08:31:09 2017
 Response via : Initial Calibration

AdjTIC

150000



Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL07.D Vial: 7
 Acq On : 20 Jul 2017 10:05 am Operator: MGC
 Sample : 1712752-CAL4 Inst : MS-V5
 Misc : 1 VO-109-70510;25ML Multipllr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 10:19 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Wed Jul 12 08:31:09 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	187618	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	281102	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	72968	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	55567	9.89	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	98.90%
31) Toluene d8 SMC#2	8.60	98	350702	10.08	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	100.80%
49) Bromofluorobenzene SMC#3	10.34	95	110978	10.27	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	102.70%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.76	85	233707	22.55	ug/L
3) Chloromethane	1.95	50	397043	22.27	ug/L
4) Vinyl chloride	2.07	62	330883	22.69	ug/L
5) Bromomethane	2.44	94	180127	22.55	ug/L
6) Chloroethane	2.56	64	220423	23.54	ug/L
7) Trichlorofluoromethane	2.87	101	282193	21.68	ug/L
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	196960	23.49	ug/L
9) 1,1-Dichloroethene	3.51	61	361355	22.61	ug/L
10) Methylene chloride	4.15	84	189832	23.17	ug/L
11) MTBE	4.48	73	268374	27.51	ug/L
12) T-1,2-dichloroethene	4.50	96	220131	22.45	ug/L
13) 1,1-Dichloroethane	5.05	63	474319	23.59	ug/L
14) 2,2-Dichloropropane	5.83	77	271108	30.80	ug/L
15) Cis-1,2-dichloroethene	5.82	96	227870	23.70	ug/L
16) Bromochloromethane	6.18	128	72379	23.10	ug/L
17) Chloroform	6.32	83	330492	22.81	ug/L
18) 1,1,1-Trichloroethane	6.53	97	295919	26.99	ug/L
19) 1,1-Dichloropropene	6.71	75	298538	22.18	ug/L
20) Carbon tetrachloride	6.71	119	208396	26.04	ug/L
22) 1,2-Dichloroethane	7.00	62	180628	22.58	ug/L
23) Benzene	6.94	78	899294	23.06	ug/L
25) Trichloroethene	7.60	130	235207	22.95	ug/L
26) 1,2-Dichloropropane	7.83	63	261395	24.72	ug/L
27) Dibromomethane	7.91	93	63746	23.43	ug/L
28) Bromodichloromethane	8.05	83	200332	26.46	ug/L
29) 2-ceve	8.27	63	274355	102.09	ug/L
30) Cis-1,3-dichloropropene	8.40	75	254046	25.36	ug/L
32) Toluene	8.65	92	598158	23.41	ug/L
33) Trans-1,3-dichloropropene	8.82	75	172658	27.30	ug/L
34) 1,1,2-Trichloroethane	8.96	97	106093	25.33	ug/L
35) Tetrachloroethene (PCE)	9.03	166	219320	23.35	ug/L
36) 1,3-Dichloropropane	9.08	76	171822	25.25	ug/L
37) Dibromochloromethane	9.24	129	109837	24.44	ug/L
38) 1,2-Dibromoethane	9.32	107	87501	24.03	ug/L
40) Chlorobenzene	9.64	112	590580	24.23	ug/L
41) 1,1,1,2-Tetrachloroethane	9.69	131	157573	27.47	ug/L
42) Ethylbenzene	9.69	106	352215	24.23	ug/L
43) P+m-Xylene	9.77	106	860494	49.52	ug/L
44) O-Xylene	10.01	106	412366	25.76	ug/L
45) Styrene	10.02	104	624390	25.53	ug/L
46) Bromoform	10.15	173	46962	25.84	ug/L
47) Isopropylbenzene	10.23	105	1059489	25.47	ug/L
48) 1,1,2,2-Tetrachloroethane	10.41	83	103328	25.76	ug/L
50) 1,2,3-Trichloropropane	10.45	110	23022	25.64	ug/L
51) n-propylbenzene	10.48	91	1289258	24.16	ug/L

(#) = qualifier out of range (m) = manual integration

20JUL07.D 82605.M Thu Jul 20 10:20:27 2017

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL07.D Vial: 7
 Acq On : 20 Jul 2017 10:05 am Operator: MGC
 Sample : 1712752-CAL4 Inst : MS-V5
 Misc : 1 VO-109-70510;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 10:19 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Wed Jul 12 08:31:09 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

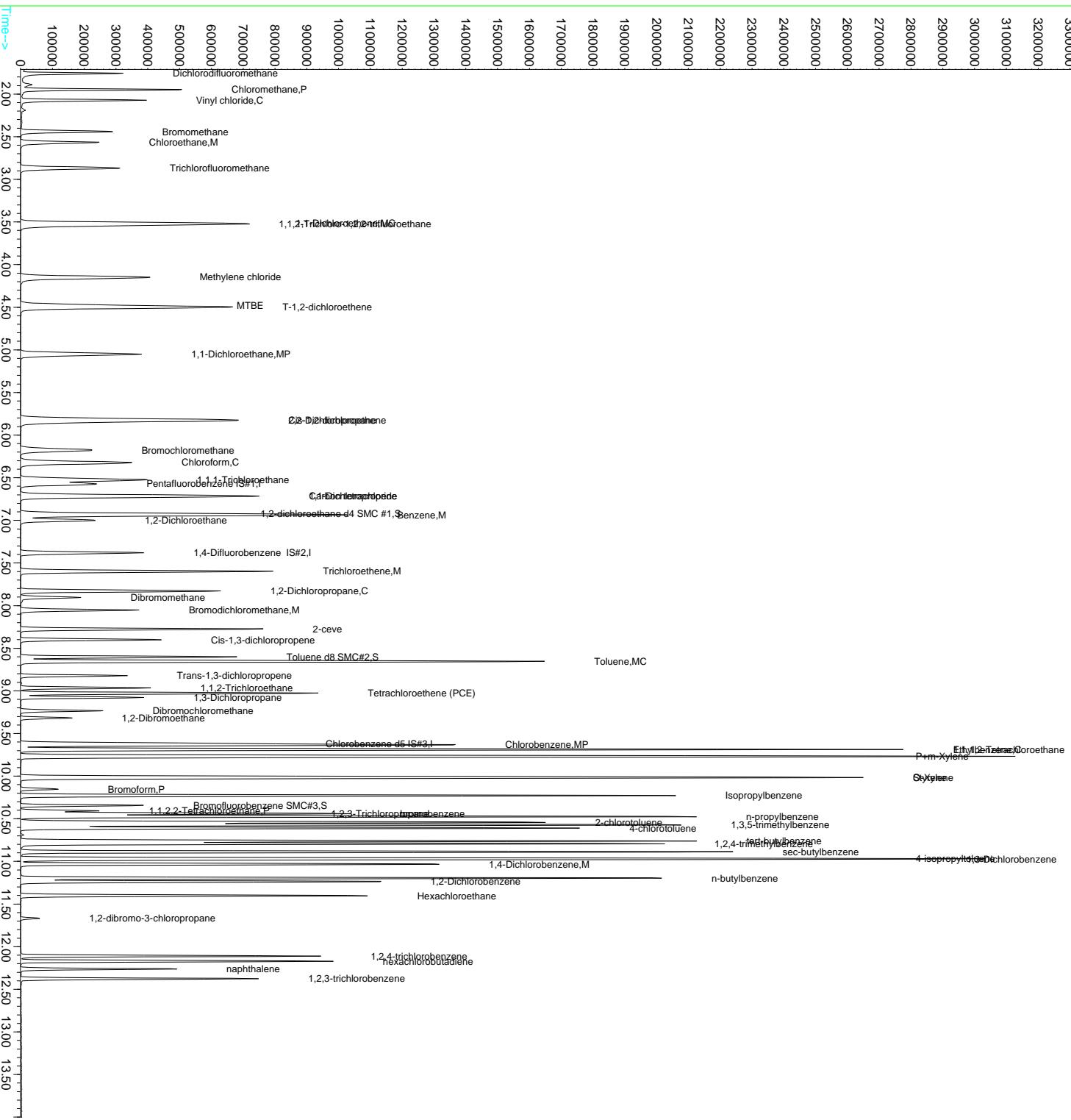
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) bromobenzene	10.44	156	208206	24.82	ug/L	88
53) 1,3,5-trimethylbenzene	10.57	105	881972	25.63	ug/L	98
54) 2-chlorotoluene	10.54	91	849225	25.34	ug/L	97
55) 4-chlorotoluene	10.61	91	776277	24.79	ug/L	90
56) tert-butylbenzene	10.76	119	911734	25.94	ug/L	89
57) 1,2,4-trimethylbenzene	10.79	105	846058	25.17	ug/L	97
58) sec-butylbenzene	10.89	105	1197671	25.96	ug/L	99
59) 4-isopropyltoluene	10.97	119	962264	25.59	ug/L	98
60) 1,3-Dichlorobenzene	10.98	146	457160	24.54	ug/L	94
61) 1,4-Dichlorobenzene	11.03	146	450868	24.37	ug/L	96
62) n-butylbenzene	11.20	91	877934	25.21	ug/L	98
63) 1,2-Dichlorobenzene	11.24	146	388191	24.82	ug/L	97
64) Hexachloroethane	11.40	117	142974	28.86	ug/L #	1
65) 1,2-dibromo-3-chloropropan	11.67	75	14154	28.88	ug/L #	100
66) 1,2,4-trichlorobenzene	12.11	180	228207	27.70	ug/L	96
67) hexachlorobutadiene	12.17	225	156478	25.35	ug/L	82
68) naphthalene	12.26	128	294245	29.51	ug/L	100
69) 1,2,3-trichlorobenzene	12.38	180	186210	29.25	ug/L	95

(#) = qualifier out of range (m) = manual integration
 20JUL07.D 82605.M Thu Jul 20 10:20:27 2017

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL07.D Vial: 7
 Acq On : 20 Jul 2017 10:05 am Operator: MGC
 Sample : 1712752-CAL4 Inst: MS-V5
 Misc : 1 VO-109-70510;25ML Multipl: 1.00
 MS Integration Params: rteint.P
 Quant Time: Jul 20 10:19 2017
 Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\8260 (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Wed Jul 12 08:31:09 2017
 Response via : Initial Calibration

TIC: 20JUL07.D Quant Results File: 82605.RES



Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL08.D Vial: 8
 Acq On : 20 Jul 2017 10:28 am Operator: MGC
 Sample : 1712752-CAL5 Inst : MS-V5
 Misc : 1 VO-109-70511;25ML Multipllr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 10:42 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Wed Jul 12 08:31:09 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	185328	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	283937	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	75612	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	52177	9.40	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	94.00%
31) Toluene d8 SMC#2	8.60	98	352702	10.04	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	100.40%
49) Bromofluorobenzene SMC#3	10.34	95	113132	10.10	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	101.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.76	85	489050	47.78	ug/L	95
3) Chloromethane	1.95	50	811231	46.07	ug/L	96
4) Vinyl chloride	2.07	62	680952	47.28	ug/L	90
5) Bromomethane	2.44	94	383525	48.08	ug/L	# 81
6) Chloroethane	2.57	64	450541	48.70	ug/L	91
7) Trichlorofluoromethane	2.87	101	583179	45.35	ug/L	# 72
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	406766	49.12	ug/L	82
9) 1,1-Dichloroethene	3.51	61	746260	47.28	ug/L	98
10) Methylene chloride	4.15	84	382650	47.29	ug/L	97
11) MTBE	4.48	73	565037	58.65	ug/L	96
12) T-1,2-dichloroethene	4.50	96	456593	47.14	ug/L	94
13) 1,1-Dichloroethane	5.05	63	985020	49.59	ug/L	99
14) 2,2-Dichloropropane	5.83	77	578292	63.44	ug/L	# 1
15) Cis-1,2-dichloroethene	5.82	96	470220	49.51	ug/L	87
16) Bromochloromethane	6.17	128	150553	48.65	ug/L	# 84
17) Chloroform	6.32	83	686790	47.99	ug/L	94
18) 1,1,1-Trichloroethane	6.53	97	626987	57.90	ug/L	# 71
19) 1,1-Dichloropropene	6.72	75	627972	47.22	ug/L	98
20) Carbon tetrachloride	6.71	119	445807	54.82	ug/L	# 65
22) 1,2-Dichloroethane	7.00	62	371453	47.00	ug/L	# 85
23) Benzene	6.94	78	1825949	47.40	ug/L	# 12
25) Trichloroethene	7.60	130	495793	47.88	ug/L	95
26) 1,2-Dichloropropane	7.83	63	539026	50.47	ug/L	# 93
27) Dibromomethane	7.90	93	138763	50.50	ug/L	# 76
28) Bromodichloromethane	8.05	83	423668	55.40	ug/L	98
29) 2-ceve	8.27	63	573300	211.21	ug/L	# 75
30) Cis-1,3-dichloropropene	8.40	75	542482	52.04	ug/L	# 84
32) Toluene	8.65	92	1203883	46.65	ug/L	92
33) Trans-1,3-dichloropropene	8.82	75	369933	55.15	ug/L	99
34) 1,1,2-Trichloroethane	8.96	97	215153	50.87	ug/L	92
35) Tetrachloroethene (PCE)	9.03	166	458944	48.37	ug/L	91
36) 1,3-Dichloropropane	9.08	76	359418	52.30	ug/L	89
37) Dibromochloromethane	9.23	129	236453	50.18	ug/L	# 79
38) 1,2-Dibromoethane	9.32	107	185626	49.73	ug/L	73
40) Chlorobenzene	9.64	112	1199627	47.50	ug/L	94
41) 1,1,1,2-Tetrachloroethane	9.69	131	335607	55.90	ug/L	74
42) Ethylbenzene	9.69	106	728758	48.38	ug/L	88
43) P+m-Xylene	9.77	106	1720122	95.52	ug/L	88
44) O-Xylene	10.01	106	820982	49.50	ug/L	89
45) Styrene	10.02	104	1265285	49.93	ug/L	94
46) Bromoform	10.15	173	103405	51.93	ug/L	# 100
47) Isopropylbenzene	10.23	105	2058135	47.75	ug/L	91
48) 1,1,2,2-Tetrachloroethane	10.40	83	209018	50.28	ug/L	88
50) 1,2,3-Trichloropropane	10.45	110	46293	49.99	ug/L	# 100
51) n-propylbenzene	10.48	91	2486908	44.98	ug/L	97

(#) = qualifier out of range (m) = manual integration

20JUL08.D 82605.M Thu Jul 20 11:16:20 2017

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL08.D Vial: 8
 Acq On : 20 Jul 2017 10:28 am Operator: MGC
 Sample : 1712752-CAL5 Inst : MS-V5
 Misc : 1 VO-109-70511;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 10:42 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Wed Jul 12 08:31:09 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) bromobenzene	10.44	156	431566	49.65	ug/L	87
53) 1,3,5-trimethylbenzene	10.57	105	1748994	49.05	ug/L	96
54) 2-chlorotoluene	10.54	91	1732739	49.90	ug/L	94
55) 4-chlorotoluene	10.61	91	1522073	46.91	ug/L	86
56) tert-butylbenzene	10.76	119	1651439	45.35	ug/L	96
57) 1,2,4-trimethylbenzene	10.79	105	1707838	49.03	ug/L	94
58) sec-butylbenzene	10.89	105	2289268	47.89	ug/L	95
59) 4-isopropyltoluene	10.97	119	1837385	47.16	ug/L	96
60) 1,3-Dichlorobenzene	10.98	146	927038	48.02	ug/L	93
61) 1,4-Dichlorobenzene	11.03	146	927481	48.39	ug/L	95
62) n-butylbenzene	11.19	91	1757111	48.70	ug/L	96
63) 1,2-Dichlorobenzene	11.24	146	816300	50.36	ug/L	95
64) Hexachloroethane	11.40	117	338530	61.25	ug/L	# 1
65) 1,2-dibromo-3-chloropropan	11.66	75	28130	52.27	ug/L	# 100
66) 1,2,4-trichlorobenzene	12.11	180	488995	57.27	ug/L	94
67) hexachlorobutadiene	12.17	225	330304	51.64	ug/L	81
68) naphthalene	12.26	128	645395	62.47	ug/L	100
69) 1,2,3-trichlorobenzene	12.38	180	404558	61.33	ug/L	95

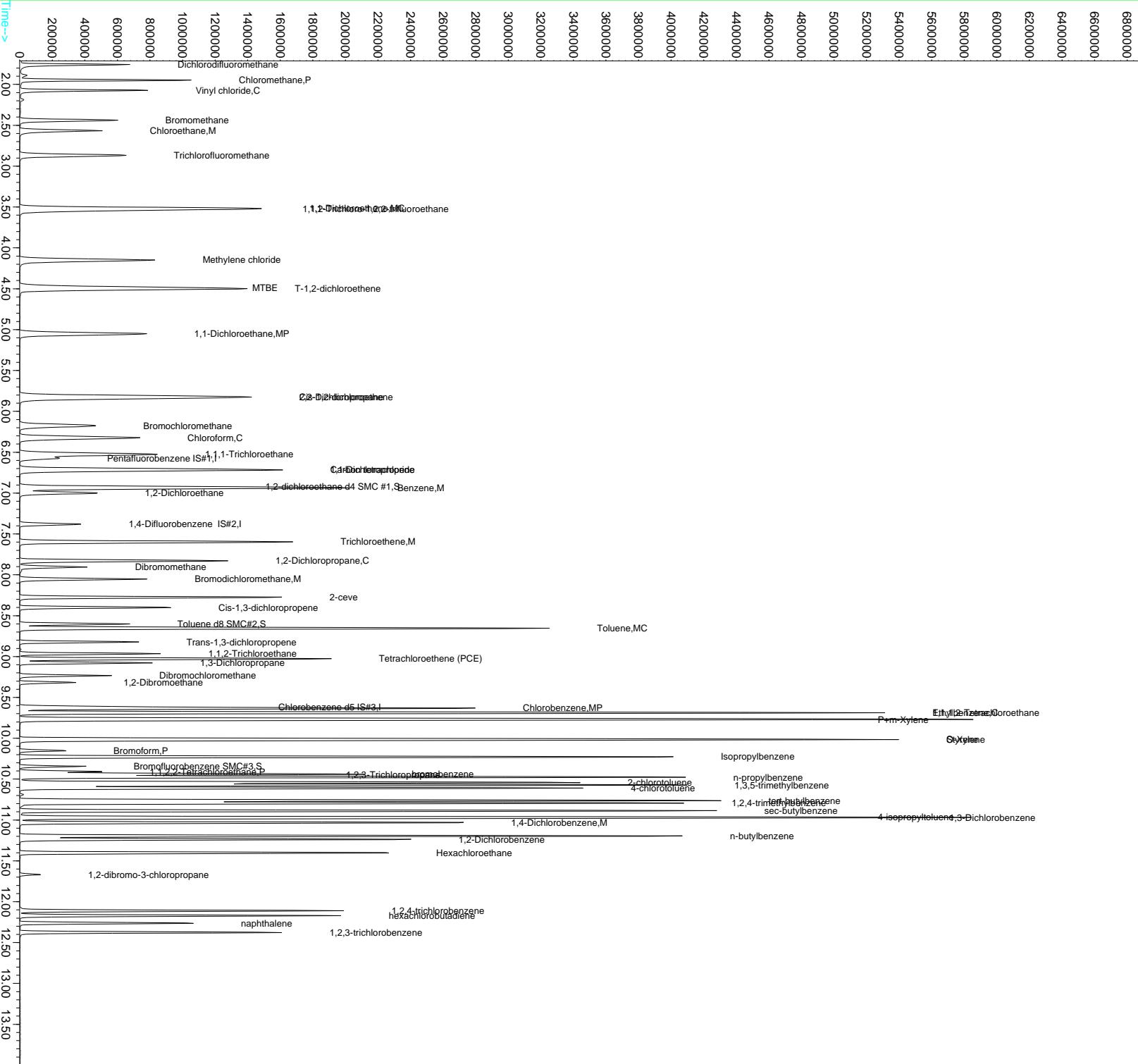
(#) = qualifier out of range (m) = manual integration
 20JUL08.D 82605.M Thu Jul 20 11:16:20 2017

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL08.D Vial: 8
 Acq On : 20 Jul 2017 10:28 am Operator: MGC
 Sample : 1712752-CAL5 Inst: MS-V5
 Misc : 1 VO-109-70511;25ML Multipl: 1.00
 MS Integration Params: rteint.P
 Quant Time: Jul 20 10:42 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Wed Jul 12 08:31:09 2017
 Response via : Initial Calibration

Abundance



Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL09.D Vial: 9
 Acq On : 20 Jul 2017 10:51 am Operator: MGC
 Sample : 1712752-CAL6 Inst : MS-V5
 Misc : 1 VO-109-70512;25ML Multipllr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 11:17 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Wed Jul 12 08:31:09 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	190235	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	291095	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	79131	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	52606	9.24	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	92.40%
31) Toluene d8 SMC#2	8.60	98	361125	10.02	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	100.20%
49) Bromofluorobenzene SMC#3	10.35	95	119244	10.17	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	101.70%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.76	85	968491	92.18	ug/L
3) Chloromethane	1.95	50	1582330	87.55	ug/L
4) Vinyl chloride	2.07	62	1339863	90.62	ug/L
5) Bromomethane	2.43	94	784813	95.38	ug/L
6) Chloroethane	2.56	64	904760	95.28	ug/L
7) Trichlorofluoromethane	2.86	101	1169918	88.63	ug/L
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	827800	97.39	ug/L
9) 1,1-Dichloroethene	3.51	61	1454487	89.77	ug/L
10) Methylene chloride	4.15	84	782570	94.22	ug/L
11) MTBE	4.48	73	1135341	114.80	ug/L
12) T-1,2-dichloroethene	4.50	96	923699	92.92	ug/L
13) 1,1-Dichloroethane	5.05	63	1917451	94.05	ug/L
14) 2,2-Dichloropropane	5.83	77	1166561	122.13	ug/L
15) Cis-1,2-dichloroethene	5.82	96	959200	98.40	ug/L
16) Bromochloromethane	6.18	128	311515	98.07	ug/L
17) Chloroform	6.32	83	1363741	92.83	ug/L
18) 1,1,1-Trichloroethane	6.52	97	1261866	113.52	ug/L
19) 1,1-Dichloropropene	6.72	75	1237502	90.66	ug/L
20) Carbon tetrachloride	6.71	119	903203	106.90	ug/L
22) 1,2-Dichloroethane	7.00	62	735383	90.65	ug/L
23) Benzene	6.94	78	3475353	87.89	ug/L
25) Trichloroethene	7.60	130	1001087	94.31	ug/L
26) 1,2-Dichloropropane	7.83	63	1075561	98.23	ug/L
27) Dibromomethane	7.90	93	286571	101.73	ug/L
28) Bromodichloromethane	8.05	83	869037	110.85	ug/L
29) 2-ceve	8.28	63	1143478	410.90	ug/L
30) Cis-1,3-dichloropropene	8.40	75	1103839	101.90	ug/L
32) Toluene	8.65	92	2287718	86.47	ug/L
33) Trans-1,3-dichloropropene	8.82	75	767736	109.12	ug/L
34) 1,1,2-Trichloroethane	8.97	97	446863	103.05	ug/L
35) Tetrachloroethene (PCE)	9.03	166	916653	94.22	ug/L
36) 1,3-Dichloropropane	9.07	76	715185	101.51	ug/L
37) Dibromochloromethane	9.23	129	501363	101.99	ug/L
38) 1,2-Dibromoethane	9.32	107	385684	100.11	ug/L
40) Chlorobenzene	9.63	112	2281077	86.31	ug/L
41) 1,1,1,2-Tetrachloroethane	9.69	131	644759	102.17	ug/L
42) Ethylbenzene	9.69	106	1369792	86.89	ug/L
43) P+m-Xylene	9.77	106	3044741	161.56	ug/L
44) O-Xylene	10.01	106	1555446	89.61	ug/L
45) Styrene	10.02	104	2310367	87.11	ug/L
46) Bromoform	10.15	173	232645	108.61	ug/L
47) Isopropylbenzene	10.23	105	3519654	78.02	ug/L
48) 1,1,2,2-Tetrachloroethane	10.41	83	442065	101.62	ug/L
50) 1,2,3-Trichloropropane	10.45	110	99524	102.96	ug/L
51) n-propylbenzene	10.47	91	3994962	69.05	ug/L

(#) = qualifier out of range (m) = manual integration

20JUL09.D 82605.M Thu Jul 20 11:17:22 2017

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL09.D Vial: 9
 Acq On : 20 Jul 2017 10:51 am Operator: MGC
 Sample : 1712752-CAL6 Inst : MS-V5
 Misc : 1 VO-109-70512;25ML Multipllr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 11:17 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Wed Jul 12 08:31:09 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) bromobenzene	10.44	156	883596	97.12	ug/L	86
53) 1,3,5-trimethylbenzene	10.57	105	3042409	81.53	ug/L	88
54) 2-chlorotoluene	10.54	91	3108517	85.54	ug/L	88
55) 4-chlorotoluene	10.61	91	2812921m	82.84	ug/L	
56) tert-butylbenzene	10.76	119	3375108	88.55	ug/L	90
57) 1,2,4-trimethylbenzene	10.79	105	3034120	83.23	ug/L	88
58) sec-butylbenzene	10.89	105	3766201	75.29	ug/L #	84
59) 4-isopropyltoluene	10.97	119	3123617	76.61	ug/L	90
60) 1,3-Dichlorobenzene	10.98	146	1743457	86.30	ug/L	92
61) 1,4-Dichlorobenzene	11.03	146	1807605	90.11	ug/L	96
62) n-butylbenzene	11.20	91	3076408	81.47	ug/L #	89
63) 1,2-Dichlorobenzene	11.24	146	1598367	94.22	ug/L	96
64) Hexachloroethane	11.40	117	733609	122.92	ug/L #	1
65) 1,2-dibromo-3-chloropropan	11.67	75	63145	108.23	ug/L #	100
66) 1,2,4-trichlorobenzene	12.11	180	1002881	112.23	ug/L	95
67) hexachlorobutadiene	12.17	225	656383	98.06	ug/L	83
68) naphthalene	12.26	128	1360035	125.78	ug/L	100
69) 1,2,3-trichlorobenzene	12.38	180	828865	120.07	ug/L	94

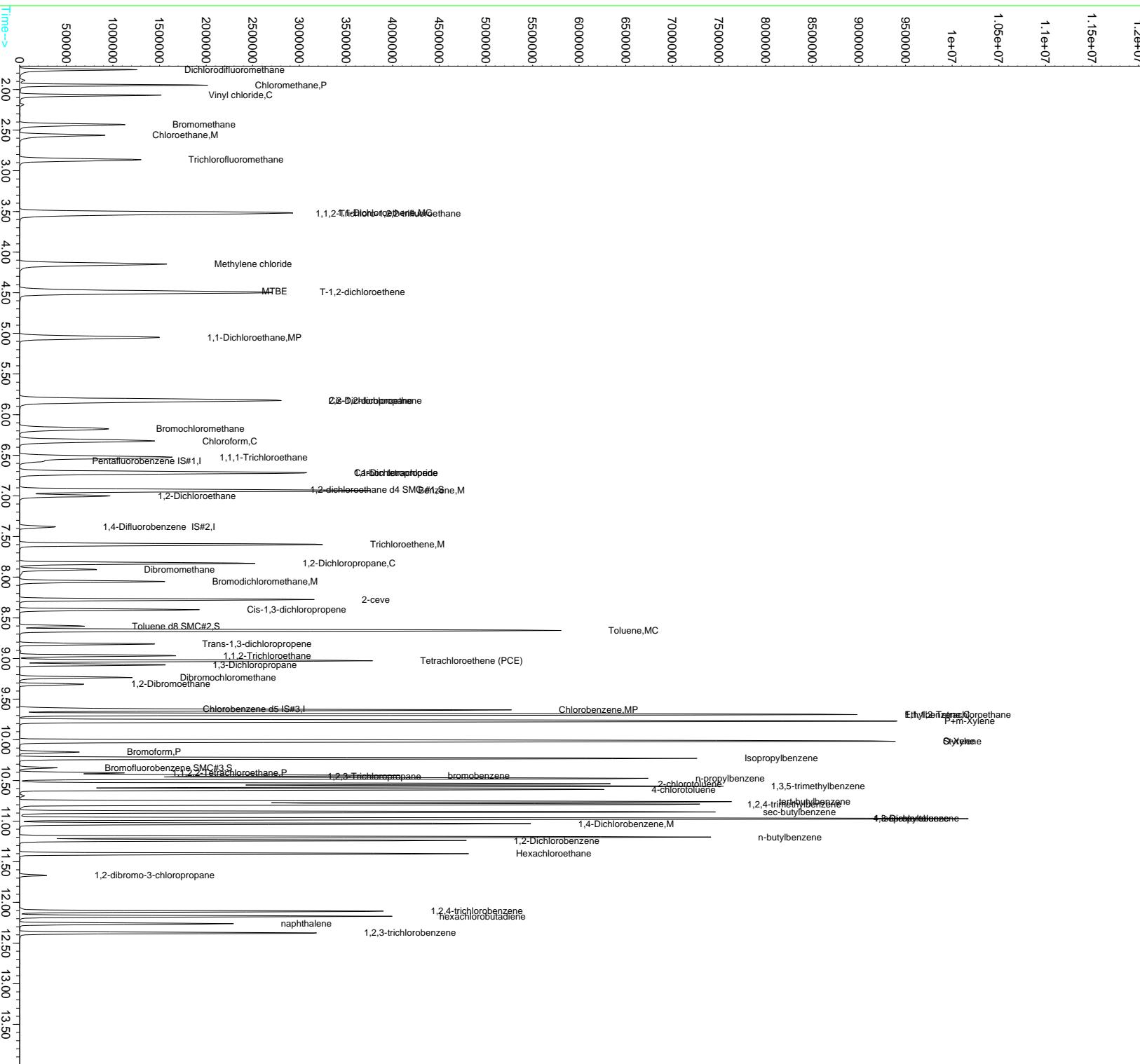
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 20JUL09.D 82605.M Thu Jul 20 11:17:22 2017

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL09.D Vial: 9
 Acq On : 20 Jul 2017 10:51 am Operator: MGC
 Sample : 1712752-CAL6 Inst : MS-V5
 Misc : 1 VO-109-70512;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 11:17 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Wed Jul 12 08:31:09 2017
 Response via : Initial Calibration

TIC: 20JUL09.D



Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL15.D Vial: 15
 Acq On : 20 Jul 2017 1:09 pm Operator: MGC
 Sample : 1712752-CAL7 Inst : MS-V5
 Misc : 1 VO-109-70524;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 13:52 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
 Title : EPA Method 624/8260
 Last Update : Tue Jul 11 13:50:19 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

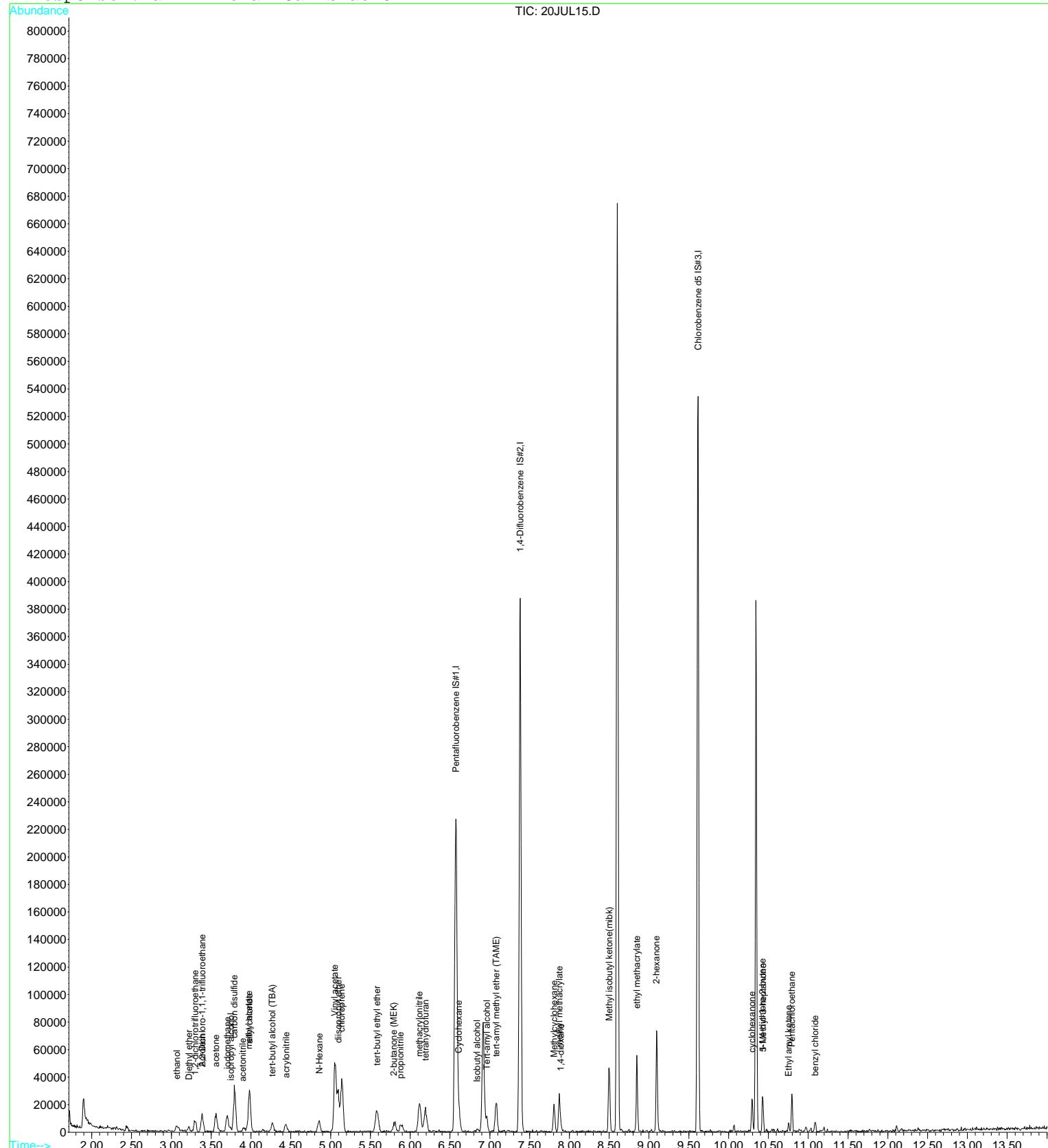
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	185398	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	284772	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	74464	10.00	ug/L	0.00

Target Compounds					Qvalue
2) ethanol	3.07	45	6669	237.41	ug/L # 74
3) 2,2-Dichloro-1,1,1-trifluoroethane	3.39	83	8420	0.48	ug/L # 97
4) 1,2-dichlorotrifluoroethane	3.30	67	6359	0.54	ug/L 95
5) Diethyl ether	3.22	59	1957	0.40	ug/L 93
6) isopropyl alcohol	3.74	45	5048	38.17	ug/L # 61
7) Acrolein	3.39	56	3657	7.77	ug/L 90
8) acetone	3.56	43	17541	21.07	ug/L 96
9) tert-butyl alcohol (TBA)	4.27	59	8481	49.09	ug/L 100
10) acetonitrile	3.90	41	3998	10.33	ug/L # 17
11) methyl acetate	3.97	43	11350	4.98	ug/L 98
12) allyl chloride	3.98	41	31171	1.67	ug/L 99
13) iodomethane	3.70	142	15966	1.40	ug/L 99
14) acrylonitrile	4.44	53	5148	3.81	ug/L # 94
15) carbon disulfide	3.79	76	47833	1.70	ug/L 97
16) N-Hexane	4.86	57	4627	0.37	ug/L # 67
17) diisopropyl ether	5.10	87	6251	0.91	ug/L 97
18) Vinyl acetate	5.05	43	102573	11.40	ug/L 99
19) chloroprene	5.14	53	31785	1.57	ug/L 88
20) tert-butyl ethyl ether	5.59	59	20227	1.08	ug/L 93
21) 2-butanone (MEK)	5.79	43	12269	8.65	ug/L # 75
22) propionitrile	5.88	54	8801	18.19	ug/L # 93
23) Isobutyl alcohol	6.84	43	1703	58.05	ug/L # 72
24) methacrylonitrile	6.12	67	11704	9.39	ug/L 88
25) Tert-amyl alcohol	6.96	59	7446	338.59	ug/L # 66
26) tetrahydrofuran	6.19	42	16283	17.10	ug/L 95
27) Cyclohexane	6.61	56	13741	0.55	ug/L # 68
28) tert-amyl methyl ether (TA	7.09	73	11082	1.05	ug/L # 75
30) methyl methacrylate	7.87	69	9451	4.86	ug/L 99
31) Methylcyclohexane	7.80	55	7620	0.44	ug/L 89
32) 1,4-dioxane	7.89	88	2808	100.34	ug/L 84
33) Methyl isobutyl ketone(mib	8.50	43	29360	9.06	ug/L 96
34) ethyl methacrylate	8.85	69	21126	5.01	ug/L 94
35) 2-hexanone	9.09	43	40486	18.67	ug/L 98
37) 5-Methyl-3-heptanone	10.44	43	3036	0.90	ug/L # 81
38) cyclohexanone	10.29	55	9469	52.48	ug/L 93
39) t-1,4-dichloro-2-butene	10.43	75	2405	8.17	ug/L # 50
40) Ethyl amyl ketone	10.76	57	1285	0.43	ug/L # 89
41) Pentachloroethane	10.79	167	2461	2.44	ug/L 89
42) benzyl chloride	11.09	91	5221	4.23	ug/L # 57

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL15.D Vial: 15
 Acq On : 20 Jul 2017 1:09 pm Operator: MGC
 Sample : 1712752-CAL7 Inst : MS-V5
 Misc : 1 VO-109-70524;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 13:52 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-1232\82605X.M (RTE Integrator)
 Title : EPA Method 624/8260
 Last Update : Tue Jul 11 13:50:19 2017
 Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL17.D
 Acq On : 20 Jul 2017 1:55 pm
 Sample : 1712752-CAL8
 Misc : 1 VO-109-70525;25ML
 MS Integration Params: rteint.p
 Quant Time: Jul 20 14:21 2017

Vial: 17
 Operator: MGC
 Inst : MS-V5
 Multipllr: 1.00

Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
 Title : EPA Method 624/8260
 Last Update : Tue Jul 11 13:50:19 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	181609	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	282158	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	74489	10.00	ug/L	0.00

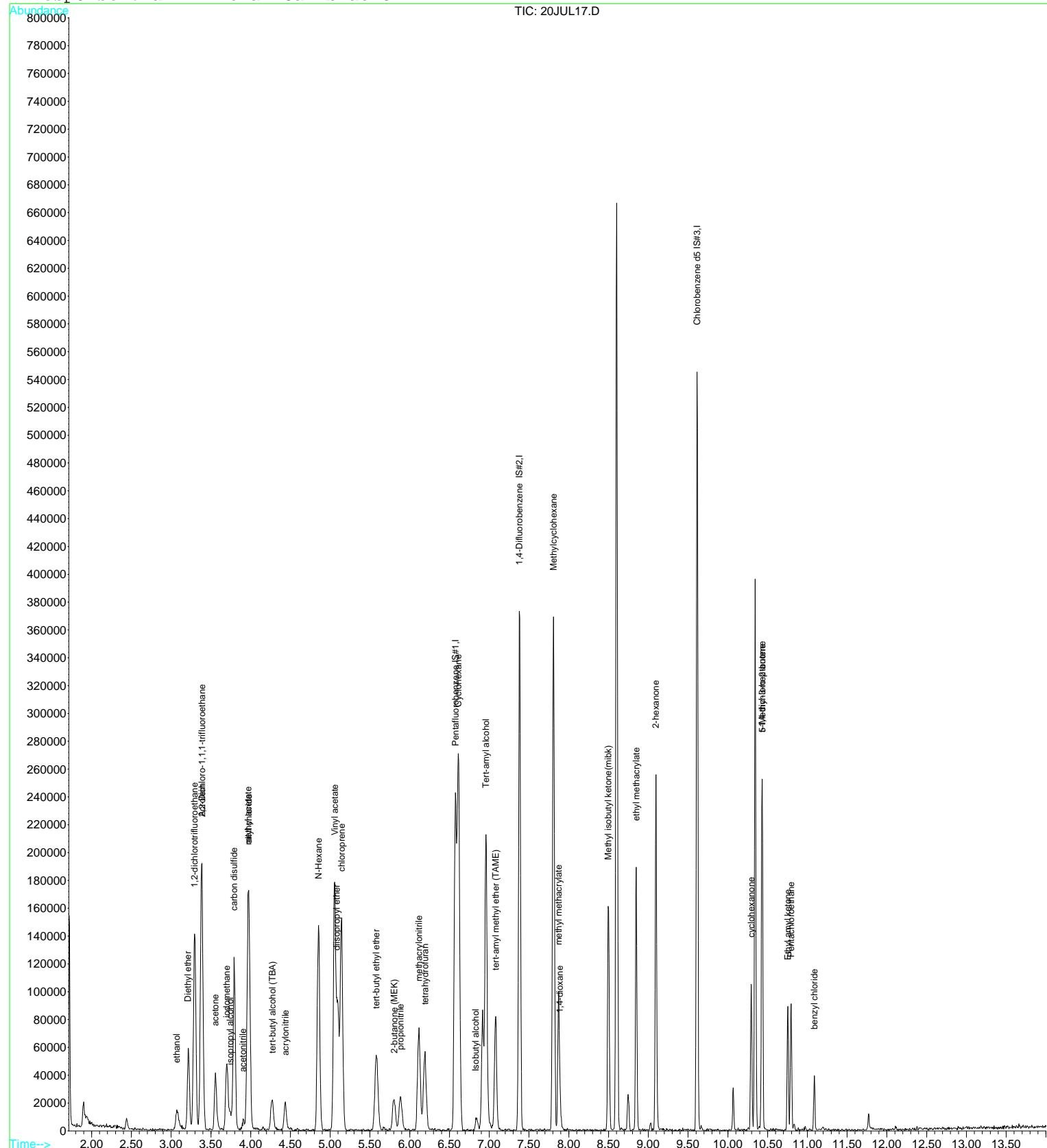
Target Compounds

					Qvalue
2) ethanol	3.07	45	24231	880.61	ug/L # 42
3) 2,2-Dichloro-1,1,1-trifluoroethane	3.39	83	139435	8.06	ug/L # 76
4) 1,2-dichlorotrifluoroethane	3.30	67	95716	8.30	ug/L # 85
5) Diethyl ether	3.22	59	36853	7.68	ug/L # 85
6) isopropyl alcohol	3.74	45	24483	188.97	ug/L # 48
7) Acrolein	3.39	56	12111	26.26	ug/L # 57
8) acetone	3.56	43	53458	65.55	ug/L 93
9) tert-butyl alcohol (TBA)	4.27	59	35214	208.08	ug/L 100
10) acetonitrile	3.90	41	11392	30.06	ug/L 92
11) methyl acetate	3.97	43	183134	81.98	ug/L 94
12) allyl chloride	3.98	41	121027	6.64	ug/L 100
13) iodomethane	3.70	142	65253	5.82	ug/L 96
14) acrylonitrile	4.44	53	19247	14.55	ug/L 88
15) carbon disulfide	3.79	76	184809	6.70	ug/L 98
16) N-Hexane	4.85	57	93481	7.68	ug/L # 84
17) diisopropyl ether	5.09	87	21528	3.19	ug/L 96
18) Vinyl acetate	5.05	43	349748	39.68	ug/L 97
19) chloroprene	5.14	53	129340	6.52	ug/L 91
20) tert-butyl ethyl ether	5.59	59	72044	3.92	ug/L 96
21) 2-butanone (MEK)	5.80	43	44212	31.81	ug/L # 88
22) propionitrile	5.88	54	37744	79.64	ug/L # 91
23) Isobutyl alcohol	6.83	43	7785	131.68	ug/L # 76
24) methacrylonitrile	6.12	67	38110	31.21	ug/L 93
25) Tert-amyl alcohol	6.96	59	138382	1103.30	ug/L # 65
26) tetrahydrofuran	6.19	42	60102	64.44	ug/L 98
27) Cyclohexane	6.62	56	183532	7.51	ug/L # 74
28) tert-amyl methyl ether (TA	7.08	73	39088	3.77	ug/L 79
30) methyl methacrylate	7.88	69	32411	16.83	ug/L 88
31) Methylcyclohexane	7.81	55	138472	8.11	ug/L 92
32) 1,4-dioxane	7.89	88	10018	361.29	ug/L 96
33) Methyl isobutyl ketone(mib	8.50	43	101652	31.67	ug/L 96
34) ethyl methacrylate	8.85	69	75440	18.04	ug/L 95
35) 2-hexanone	9.09	43	138228	64.34	ug/L 99
37) 5-Methyl-3-heptanone	10.43	43	54948	16.26	ug/L 97
38) cyclohexanone	10.29	55	39500	218.83	ug/L 97
39) t-1,4-dichloro-2-butene	10.43	75	10413	28.03	ug/L # 41
40) Ethyl amyl ketone	10.75	57	22893	7.59	ug/L # 75
41) Pentachloroethane	10.79	167	9109	4.69	ug/L # 87
42) benzyl chloride	11.09	91	20812	11.38	ug/L # 55

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL17.D Vial: 17
 Acq On : 20 Jul 2017 1:55 pm Operator: MGC
 Sample : 1712752-CAL8 Inst : MS-V5
 Misc : 1 VO-109-70525;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 14:21 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-1232\82605X.M (RTE Integrator)
 Title : EPA Method 624/8260
 Last Update : Tue Jul 11 13:50:19 2017
 Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL18.D Vial: 18
 Acq On : 20 Jul 2017 2:18 pm Operator: MGC
 Sample : 1712752-CAL9 Inst : MS-V5
 Misc : 1 VO-109-70526;25ML Multipllr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 21 4:12 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
 Title : EPA Method 624/8260
 Last Update : Tue Jul 11 13:50:19 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	177625	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	272450	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	69283	10.00	ug/L	0.00

Target Compounds					Qvalue
2) ethanol	3.08	45	62213	2311.67	ug/L # 47
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	221656	13.09	ug/L # 75
4) 1,2-dichlorotrifluoroethan	3.30	67	150832	13.37	ug/L # 85
5) Diethyl ether	3.22	59	58599	12.49	ug/L 87
6) isopropyl alcohol	3.74	45	59618	470.49	ug/L # 44
7) Acrolein	3.39	56	30220	67.01	ug/L # 69
8) acetone	3.55	43	116631	146.21	ug/L 96
9) tert-butyl alcohol (TBA)	4.27	59	80745	487.83	ug/L 100
10) acetonitrile	3.91	41	27286	73.62	ug/L # 59
11) methyl acetate	3.96	43	288754	132.16	ug/L 94
12) allyl chloride	3.98	41	270178	15.15	ug/L 97
13) iodomethane	3.70	142	154713	14.12	ug/L 97
14) acrylonitrile	4.43	53	46773	36.15	ug/L 94
15) carbon disulfide	3.79	76	408149	15.12	ug/L 97
16) N-Hexane	4.86	57	150267	12.62	ug/L # 83
17) diisopropyl ether	5.10	87	52531	7.96	ug/L 91
18) Vinyl acetate	5.06	43	828062	96.05	ug/L 97
19) chloroprene	5.15	53	286537	14.77	ug/L 93
20) tert-butyl ethyl ether	5.58	59	170677	9.49	ug/L 96
21) 2-butanone (MEK)	5.80	43	102204	75.18	ug/L # 90
22) propionitrile	5.88	54	87903	189.63	ug/L # 90
23) Isobutyl alcohol	6.84	43	19916	283.09	ug/L # 71
24) methacrylonitrile	6.12	67	91400	76.53	ug/L 90
25) Tert-amyl alcohol	6.96	59	219925	1607.75	ug/L # 64
26) tetrahydrofuran	6.18	42	135022	148.01	ug/L 94
27) Cyclohexane	6.61	56	295091	12.35	ug/L # 72
28) tert-amyl methyl ether (TA	7.08	73	92322	9.10	ug/L # 76
30) methyl methacrylate	7.87	69	77276	41.56	ug/L 93
31) Methylcyclohexane	7.81	55	219815	13.33	ug/L 92
32) 1,4-dioxane	7.89	88	22981	858.33	ug/L 81
33) Methyl isobutyl ketone(mib	8.50	43	236406	76.27	ug/L 96
34) ethyl methacrylate	8.85	69	183288	45.39	ug/L 96
35) 2-hexanone	9.09	43	323658	156.02	ug/L 99
37) 5-Methyl-3-heptanone	10.43	43	87636	27.87	ug/L 96
38) cyclohexanone	10.30	55	94541	563.10	ug/L 95
39) t-1,4-dichloro-2-butene	10.43	75	25830	63.86	ug/L # 31
40) Ethyl amyl ketone	10.75	57	34434	12.27	ug/L # 78
41) Pentachloroethane	10.80	167	21823	9.53	ug/L 91
42) benzyl chloride	11.09	91	58763	26.60	ug/L # 58

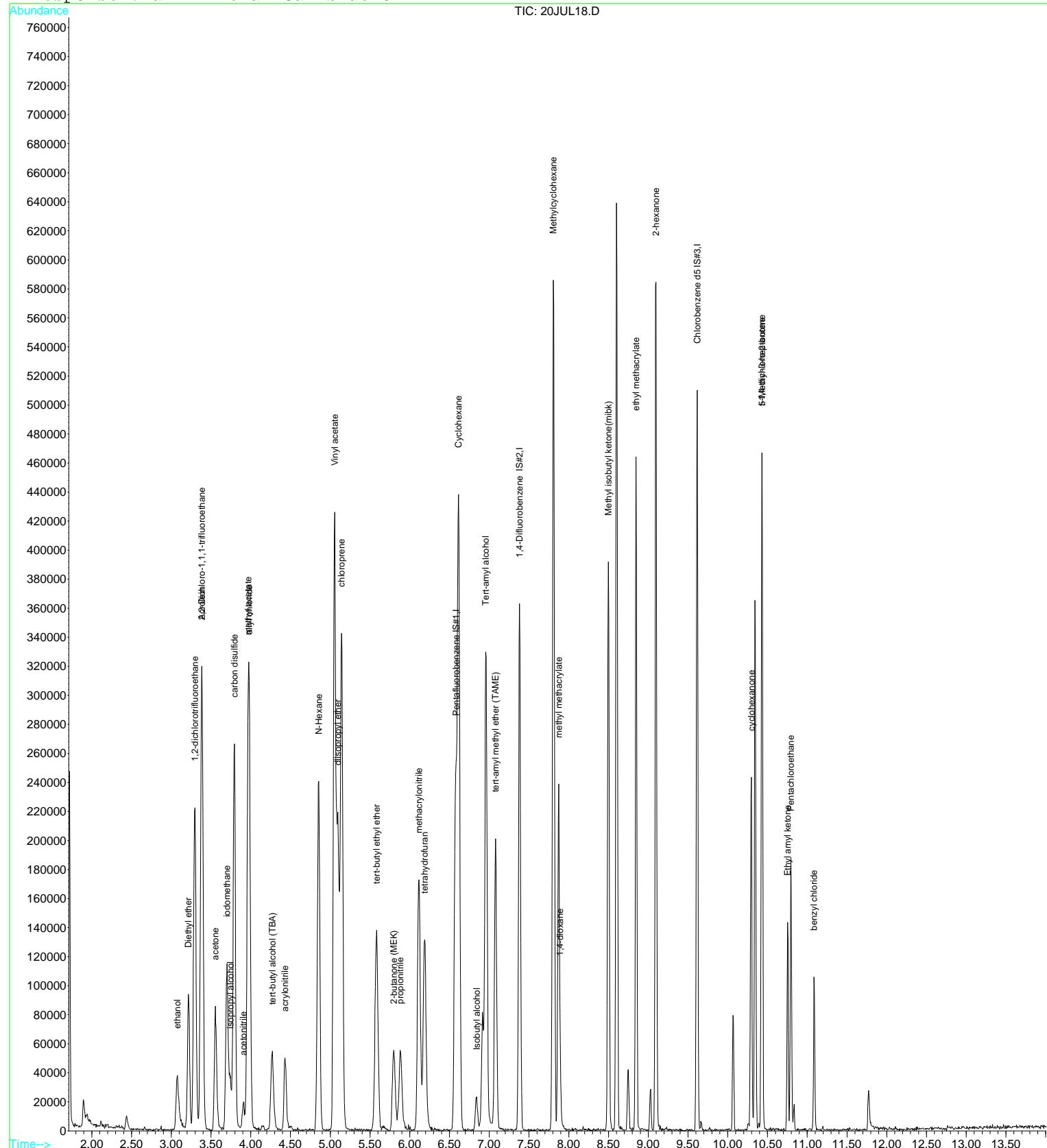
Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL18.D
 Acq On : 20 Jul 2017 2:18 pm
 Sample : 1712752-CAL9
 Misc : 1 VO-109-70526;25ML
 MS Integration Params: rteint.p
 Quant Time: Jul 21 4:12 2017

Vial: 18
 Operator: MGC
 Inst : MS-V5
 Multiplr: 1.00

Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-1232\82605X.M (RTE Integrator)
 Title : EPA Method 624/8260
 Last Update : Tue Jul 11 13:50:19 2017
 Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL19.D
 Acq On : 20 Jul 2017 2:41 pm
 Sample : 1712752-CALA
 Misc : 1 VO-109-70527;25ML
 MS Integration Params: rteint.p
 Quant Time: Jul 21 4:12 2017

Vial: 19
 Operator: MGC
 Inst : MS-V5
 Multipllr: 1.00

Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
 Title : EPA Method 624/8260
 Last Update : Tue Jul 11 13:50:19 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	178179	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	269523	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	71971	10.00	ug/L	0.00

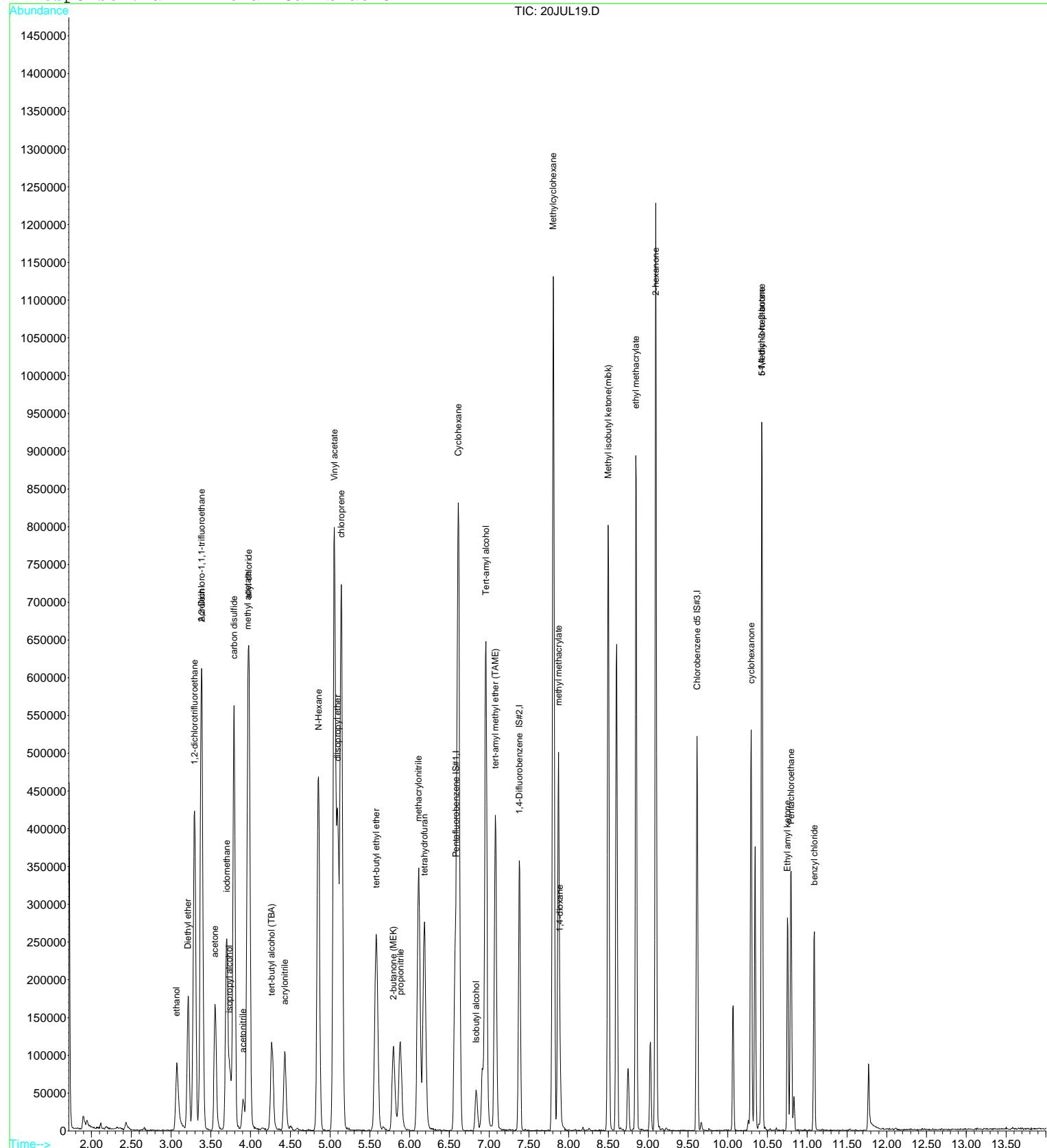
Target Compounds					Qvalue
2) ethanol	3.07	45	140530	5205.50	ug/L # 43
3) 2,2-Dichloro-1,1,1-trifluo	3.38	83	425124	25.03	ug/L # 73
4) 1,2-dichlorotrifluoroethan	3.30	67	284371	25.13	ug/L # 83
5) Diethyl ether	3.22	59	114106	24.25	ug/L 85
6) isopropyl alcohol	3.74	45	131474	1034.33	ug/L # 41
7) Acrolein	3.39	56	62901	139.04	ug/L # 73
8) acetone	3.55	43	229854	287.26	ug/L 94
9) tert-butyl alcohol (TBA)	4.26	59	175269	1055.61	ug/L 100
10) acetonitrile	3.91	41	61133	164.42	ug/L # 33
11) methyl acetate	3.96	43	550034	250.97	ug/L 95
12) allyl chloride	3.98	41	574268	32.11	ug/L 95
13) iodomethane	3.70	142	355621	32.35	ug/L 98
14) acrylonitrile	4.43	53	102774	79.19	ug/L 96
15) carbon disulfide	3.79	76	874992	32.31	ug/L 97
16) N-Hexane	4.85	57	297530	24.90	ug/L # 84
17) diisopropyl ether	5.09	87	103764	15.68	ug/L 93
18) Vinyl acetate	5.05	43	1587903	183.61	ug/L 96
19) chloroprene	5.14	53	611898	31.45	ug/L 93
20) tert-butyl ethyl ether	5.58	59	340727	18.89	ug/L 96
21) 2-butanone (MEK)	5.80	43	200206	146.82	ug/L # 86
22) propionitrile	5.88	54	183350	394.30	ug/L # 88
23) Isobutyl alcohol	6.84	43	44239	580.76	ug/L # 69
24) methacrylonitrile	6.12	67	186727	155.86	ug/L 88
25) Tert-amyl alcohol	6.95	59	433887	2875.85	ug/L # 63
26) tetrahydrofuran	6.19	42	274573	300.05	ug/L 94
27) Cyclohexane	6.61	56	564683	23.55	ug/L # 72
28) tert-amyl methyl ether (TA	7.08	73	186688	18.35	ug/L # 73
30) methyl methacrylate	7.87	69	158389	86.10	ug/L 90
31) Methylcyclohexane	7.80	55	420775	25.80	ug/L 93
32) 1,4-dioxane	7.89	88	52189	1970.40	ug/L 86
33) Methyl isobutyl ketone(mib	8.50	43	475097	154.94	ug/L 95
34) ethyl methacrylate	8.84	69	369893	92.59	ug/L 95
35) 2-hexanone	9.10	43	657561	320.43	ug/L 100
37) 5-Methyl-3-heptanone	10.43	43	167434	51.27	ug/L 94
38) cyclohexanone	10.29	55	198878	1140.31	ug/L 94
39) t-1,4-dichloro-2-butene	10.42	75	61347	121.43	ug/L # 27
40) Ethyl amyl ketone	10.75	57	72956	25.02	ug/L # 73
41) Pentachloroethane	10.80	167	40327	15.69	ug/L 92
42) benzyl chloride	11.09	91	145825	49.60	ug/L # 57

(#) = qualifier out of range (m) = manual integration
 20JUL19.D 82605X.M Fri Jul 21 04:13:03 2017

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL19.D Vial: 19
 Acq On : 20 Jul 2017 2:41 pm Operator: MGC
 Sample : 1712752-CALA Inst : MS-V5
 Misc : 1 VO-109-70527;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 21 4:12 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-1232\82605X.M (RTE Integrator)
 Title : EPA Method 624/8260
 Last Update : Tue Jul 11 13:50:19 2017
 Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL20.D
 Acq On : 20 Jul 2017 3:04 pm
 Sample : 1712752-CALB
 Misc : 1 VO-109-70528;25ML
 MS Integration Params: rteint.p
 Quant Time: Jul 21 4:13 2017

Vial: 20
 Operator: MGC
 Inst : MS-V5
 Multipllr: 1.00

Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
 Title : EPA Method 624/8260
 Last Update : Tue Jul 11 13:50:19 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

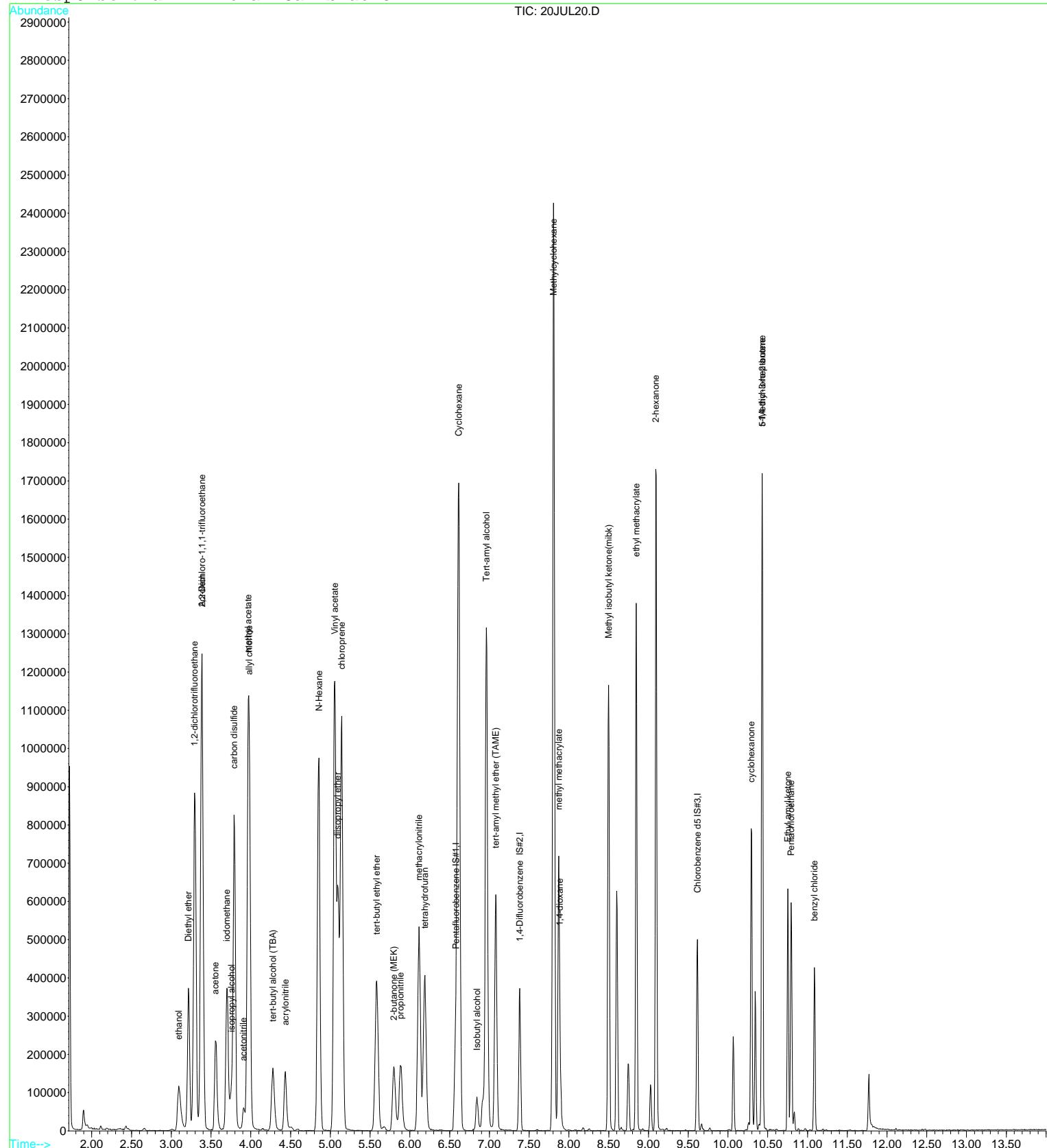
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	174621	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	263233	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	69099	10.00	ug/L	0.00

Target Compounds					Qvalue
2) ethanol	3.09	45	205730	7775.90	ug/L # 43
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	860452	51.70	ug/L # 76
4) 1,2-dichlorotrifluoroethan	3.29	67	590714	53.27	ug/L # 85
5) Diethyl ether	3.22	59	235219	51.00	ug/L 83
6) isopropyl alcohol	3.75	45	195278	1567.58	ug/L # 8
7) Acrolein	3.39	56	108941	245.71	ug/L # 69
8) acetone	3.55	43	344325	439.08	ug/L 95
9) tert-butyl alcohol (TBA)	4.28	59	252324	1550.67	ug/L 100
10) acetonitrile	3.91	41	83903	230.26	ug/L # 26
11) methyl acetate	3.96	43	1128055	525.19	ug/L 94
12) allyl chloride	3.98	41	862980	49.23	ug/L 96
13) iodomethane	3.70	142	539359	50.07	ug/L 98
14) acrylonitrile	4.44	53	154090	121.14	ug/L 95
15) carbon disulfide	3.79	76	1271472	47.91	ug/L 97
16) N-Hexane	4.86	57	623461	53.24	ug/L # 83
17) diisopropyl ether	5.10	87	157252	24.25	ug/L 89
18) Vinyl acetate	5.06	43	2385200	281.42	ug/L # 96
19) chloroprene	5.14	53	902085	47.31	ug/L 94
20) tert-butyl ethyl ether	5.58	59	505113	28.57	ug/L 95
21) 2-butanone (MEK)	5.80	43	302620	226.44	ug/L # 87
22) propionitrile	5.88	54	276513	606.77	ug/L # 89
23) Isobutyl alcohol	6.84	43	69599	909.31	ug/L # 76
24) methacrylonitrile	6.12	67	274890	234.12	ug/L 89
25) Tert-amyl alcohol	6.96	59	913464	5837.98	ug/L # 61
26) tetrahydrofuran	6.19	42	401837	448.07	ug/L 93
27) Cyclohexane	6.61	56	1165061	49.58	ug/L # 72
28) tert-amyl methyl ether (TA	7.08	73	285000	28.58	ug/L # 70
30) methyl methacrylate	7.87	69	241996	134.69	ug/L 95
31) Methylcyclohexane	7.81	55	877587	55.09	ug/L 93
32) 1,4-dioxane	7.89	88	73893	2856.51	ug/L 86
33) Methyl isobutyl ketone(mib	8.50	43	701682	234.30	ug/L 94
34) ethyl methacrylate	8.85	69	550973	141.22	ug/L 95
35) 2-hexanone	9.09	43	935679	466.85	ug/L 98
37) 5-Methyl-3-heptanone	10.43	43	334691	106.74	ug/L 94
38) cyclohexanone	10.29	55	313653	1873.15	ug/L 95
39) t-1,4-dichloro-2-butene	10.42	75	102481	180.83	ug/L # 20
40) Ethyl amyl ketone	10.75	57	152313	54.40	ug/L # 73
41) Pentachloroethane	10.79	167	70897	27.38	ug/L 91
42) benzyl chloride	11.09	91	232501	69.65	ug/L # 55

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL20.D Vial: 20
 Acq On : 20 Jul 2017 3:04 pm Operator: MGC
 Sample : 1712752-CALB Inst : MS-V5
 Misc : 1 VO-109-70528;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 21 4:13 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-1232\82605X.M (RTE Integrator)
 Title : EPA Method 624/8260
 Last Update : Tue Jul 11 13:50:19 2017
 Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL21.D
 Acq On : 20 Jul 2017 3:27 pm
 Sample : 1712752-CALC
 Misc : 1 VO-109-70529;25ML
 MS Integration Params: rteint.p
 Quant Time: Jul 21 4:13 2017

Vial: 21
 Operator: MGC
 Inst : MS-V5
 Multipllr: 1.00

Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
 Title : EPA Method 624/8260
 Last Update : Tue Jul 11 13:50:19 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	191859	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	287684	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	76272	10.00	ug/L	0.00

Target Compounds

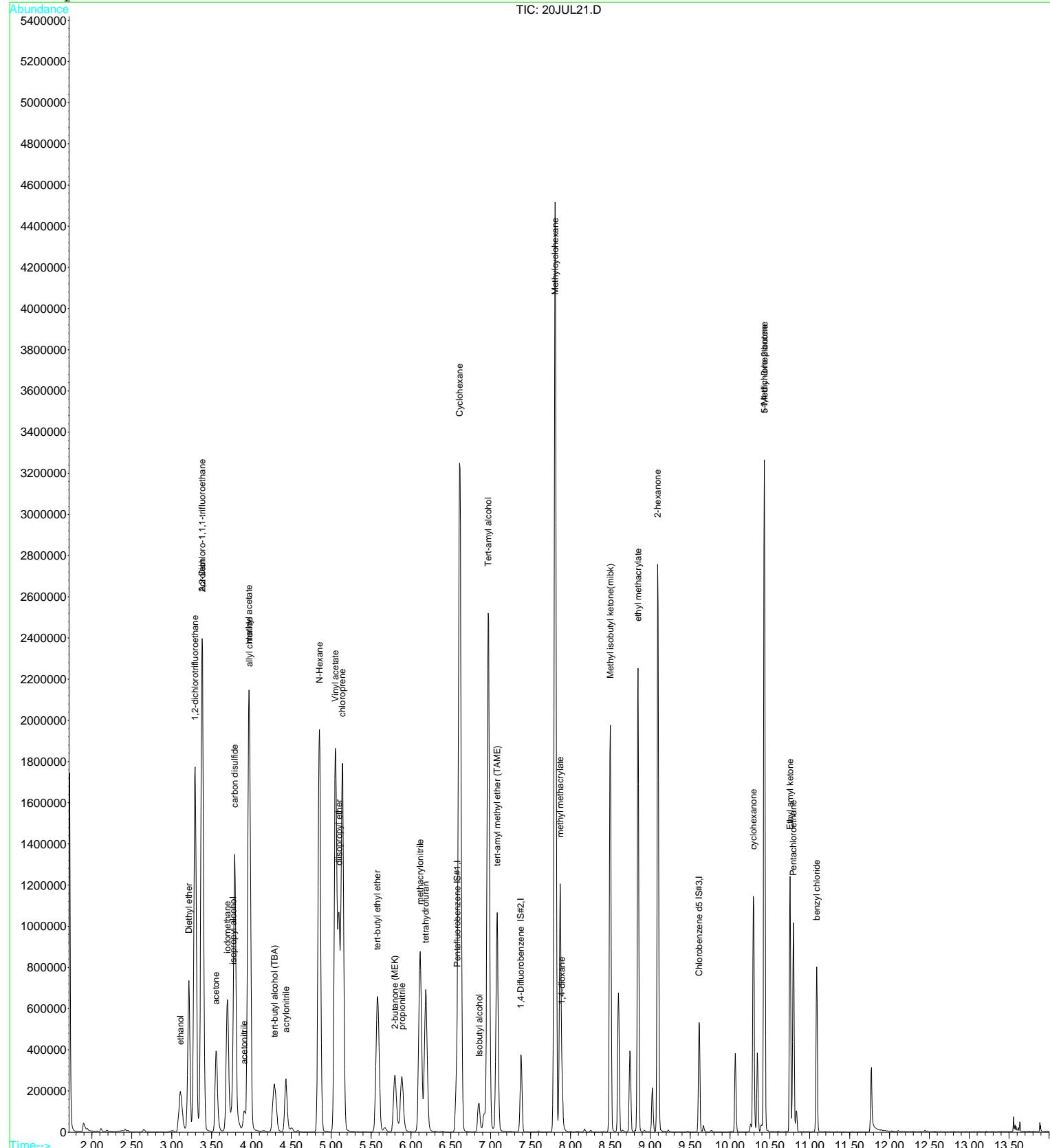
				Qvalue
2) ethanol	3.11	45	343157	11804.84 ug/L # 40
3) 2,2-Dichloro-1,1,1-trifluo	3.38	83	1694547	92.67 ug/L # 75
4) 1,2-dichlorotrifluoroethan	3.29	67	1178349	96.72 ug/L # 85
5) Diethyl ether	3.22	59	472236	93.20 ug/L 82
6) isopropyl alcohol	3.77	45	317937	2322.91 ug/L # 6
7) Acrolein	3.39	56	180190	369.90 ug/L # 72
8) acetone	3.56	43	577159	669.86 ug/L 96
9) tert-butyl alcohol (TBA)	4.29	59	450091	2517.53 ug/L 100
10) acetonitrile	3.91	41	136990	342.17 ug/L # 27
11) methyl acetate	3.97	43	2174902	921.60 ug/L 91
12) allyl chloride	3.98	41	1442058	74.88 ug/L 97
13) iodomethane	3.70	142	960471	81.15 ug/L 99
14) acrylonitrile	4.43	53	249855	178.78 ug/L 95
15) carbon disulfide	3.79	76	2158751	74.03 ug/L 97
16) N-Hexane	4.85	57	1257523	97.74 ug/L # 84
17) diisopropyl ether	5.10	87	262020	36.77 ug/L 91
18) Vinyl acetate	5.05	43	3834502	411.77 ug/L # 95
19) chloroprene	5.14	53	1510657	72.11 ug/L 96
20) tert-butyl ethyl ether	5.58	59	868719	44.72 ug/L 93
21) 2-butanone (MEK)	5.79	43	505064	343.97 ug/L # 87
22) propionitrile	5.89	54	430629	860.06 ug/L # 87
23) Isobutyl alcohol	6.85	43	115290	1351.66 ug/L # 76
24) methacrylonitrile	6.12	67	474660	367.94 ug/L 87
25) Tert-amyl alcohol	6.97	59	1893937	10754.08 ug/L # 59
26) tetrahydrofuran	6.18	42	681592	691.73 ug/L 94
27) Cyclohexane	6.61	56	2255697	87.37 ug/L # 73
28) tert-amyl methyl ether (TA	7.08	73	485199	44.28 ug/L # 70
30) methyl methacrylate	7.87	69	415597	211.66 ug/L 97
31) Methylcyclohexane	7.81	55	1673839	96.15 ug/L 94
32) 1,4-dioxane	7.90	88	128386	4541.24 ug/L 89
33) Methyl isobutyl ketone(mib	8.50	43	1152352	352.08 ug/L 93
34) ethyl methacrylate	8.85	69	909414	213.28 ug/L 96
35) 2-hexanone	9.09	43	1491577	680.96 ug/L 96
37) 5-Methyl-3-heptanone	10.43	43	646664	186.84 ug/L 93
38) cyclohexanone	10.29	55	449992	2434.64 ug/L 94
39) t-1,4-dichloro-2-butene	10.43	75	176499	244.62 ug/L # 20
40) Ethyl amyl ketone	10.75	57	306368	99.14 ug/L # 71
41) Pentachloroethane	10.79	167	132243	45.16 ug/L 91
42) benzyl chloride	11.09	91	435458	97.53 ug/L # 54

(#) = qualifier out of range (m) = manual integration
 20JUL21.D 82605X.M Fri Jul 21 04:13:49 2017

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL21.D Vial: 21
 Acq On : 20 Jul 2017 3:27 pm Operator: MGC
 Sample : 1712752-CALC Inst : MS-V5
 Misc : 1 VO-109-70529;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 21 4:13 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-1232\82605X.M (RTE Integrator)
 Title : EPA Method 624/8260
 Last Update : Tue Jul 11 13:50:19 2017
 Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL50.D Vial: 50
 Acq On : 18 Jul 2017 12:00 am Operator: MGC
 Sample : 1712538-CALD Inst : MS-V5
 Misc : 1 VO-109-70472;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 18 7:12 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
 Title : EPA Method TPPH Gasoline
 Last Update : Thu Jul 06 06:15:28 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	203330	10.00	ug/L	0.00

System Monitoring Compounds

2) PENTAFLUOROBENZENE S 1	6.57	TIC	560010m	5.20	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.92	TIC	196599m	3.33	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	759365m	6.84	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	1067752m	11.21	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	813344m	11.95	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	534468m	11.94	ug/L	0.00

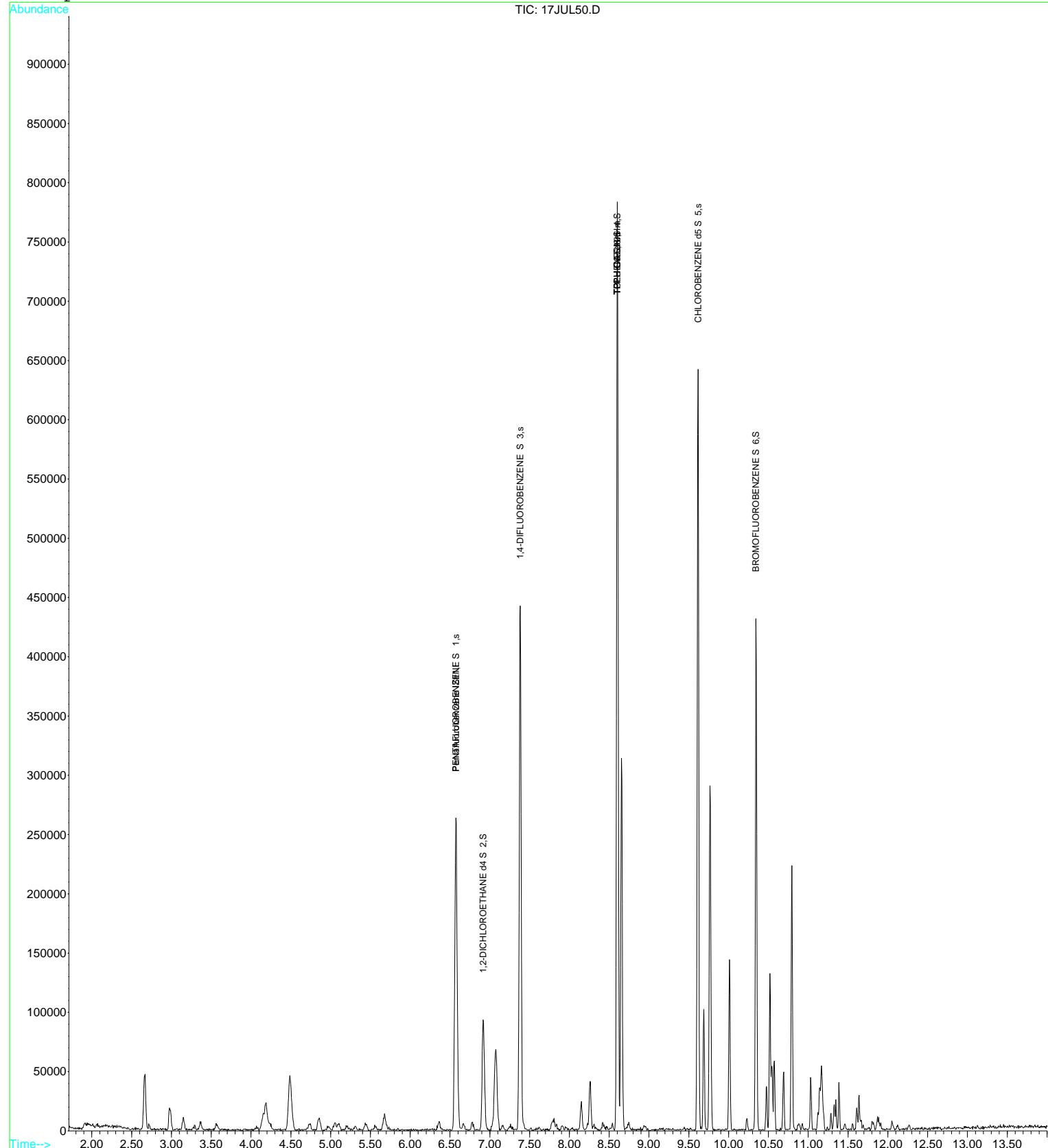
Target Compounds

				Qvalue
8) TPPH-GAS	8.60	TIC	3323551m	57.88 ug/L
9) TPPH C6-C10	8.60	TIC	2289132m	59.15 ug/L

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL50.D Vial: 50
 Acq On : 18 Jul 2017 12:00 am Operator: MGC
 Sample : 1712538-CALD Inst : MS-V5
 Misc : 1 VO-109-70472;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 18 7:12 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\05-1939\TPPH5.M (RTE Integrator)
 Title : EPA Method TPPH Gasoline
 Last Update : Thu Jul 06 06:15:28 2017
 Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL51.D Vial: 51
 Acq On : 18 Jul 2017 12:23 am Operator: MGC
 Sample : 1712538-CALE Inst : MS-V5
 Misc : 1 VO-109-70473;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 18 7:13 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
 Title : EPA Method TPPH Gasoline
 Last Update : Thu Jul 06 06:15:28 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	203353	10.00	ug/L	0.00

System Monitoring Compounds

2) PENTAFLUOROBENZENE S 1	6.57	TIC	851300m	7.90	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.93	TIC	412269m	6.97	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	997992m	8.99	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	1156175m	12.13	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.61	TIC	854311m	12.55	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	563664m	12.59	ug/L	0.00

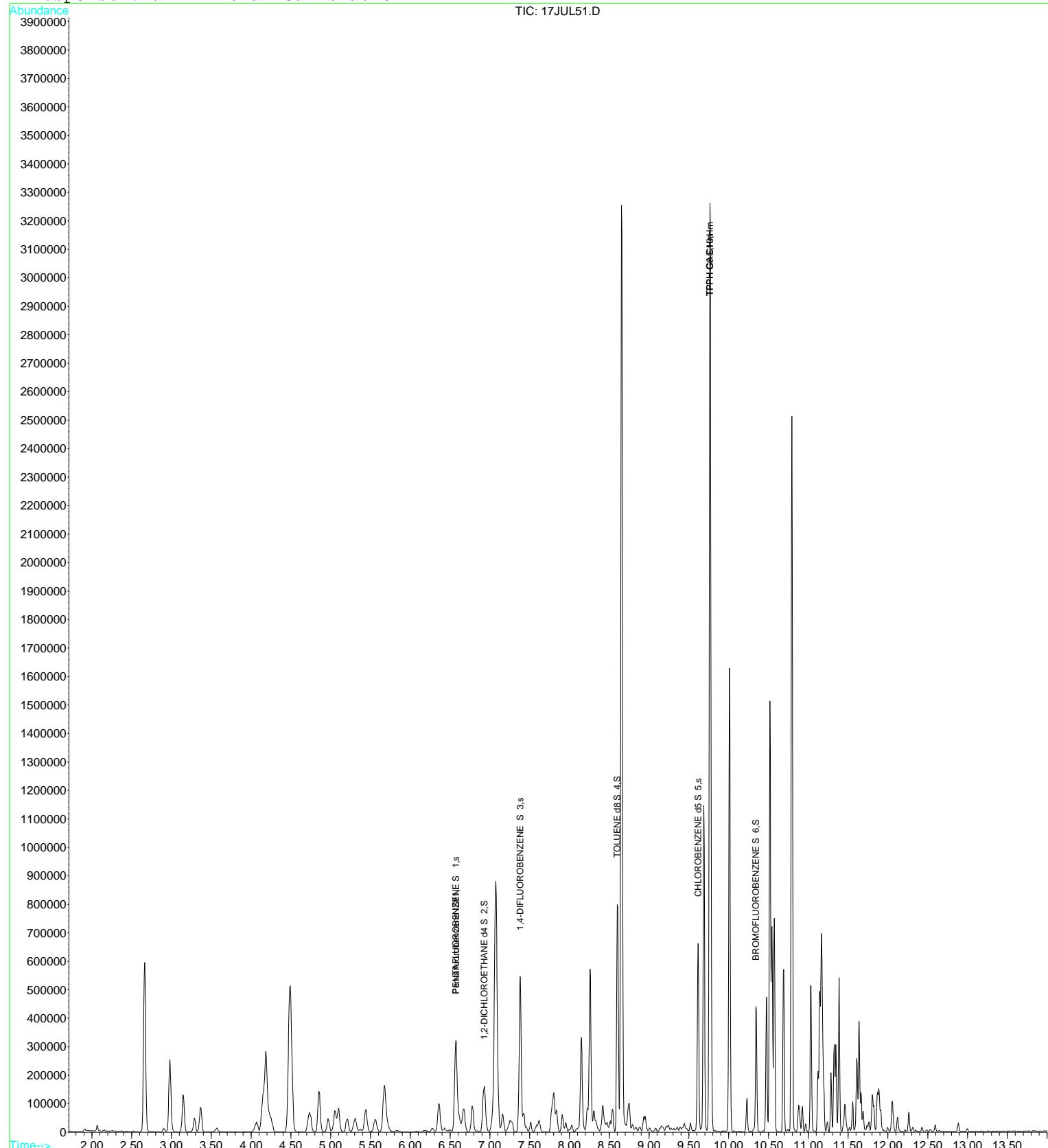
Target Compounds

				Qvalue
8) TPPH-GAS	9.76	TIC	39200624m	682.56 ug/L
9) TPPH C6-C10	9.76	TIC	26681022m	689.37 ug/L

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL51.D Vial: 51
 Acq On : 18 Jul 2017 12:23 am Operator: MGC
 Sample : 1712538-CALE Inst : MS-V5
 Misc : 1 VO-109-70473;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 18 7:13 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\05-1939\TPPH5.M (RTE Integrator)
 Title : EPA Method TPPH Gasoline
 Last Update : Thu Jul 06 06:15:28 2017
 Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL52.D Vial: 52
 Acq On : 18 Jul 2017 12:46 am Operator: MGC
 Sample : 1712538-CALF Inst : MS-V5
 Misc : 1 VO-109-70474;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 18 7:16 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
 Title : EPA Method TPPH Gasoline
 Last Update : Thu Jul 06 06:15:28 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	209806	10.00	ug/L	0.00

System Monitoring Compounds

2) PENTAFLUOROBENZENE S 1	6.57	TIC	1172463m	10.55	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.93	TIC	663952m	10.89	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	1294857m	11.31	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	1296741m	13.19	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	944425m	13.45	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	592237m	12.82	ug/L	0.00

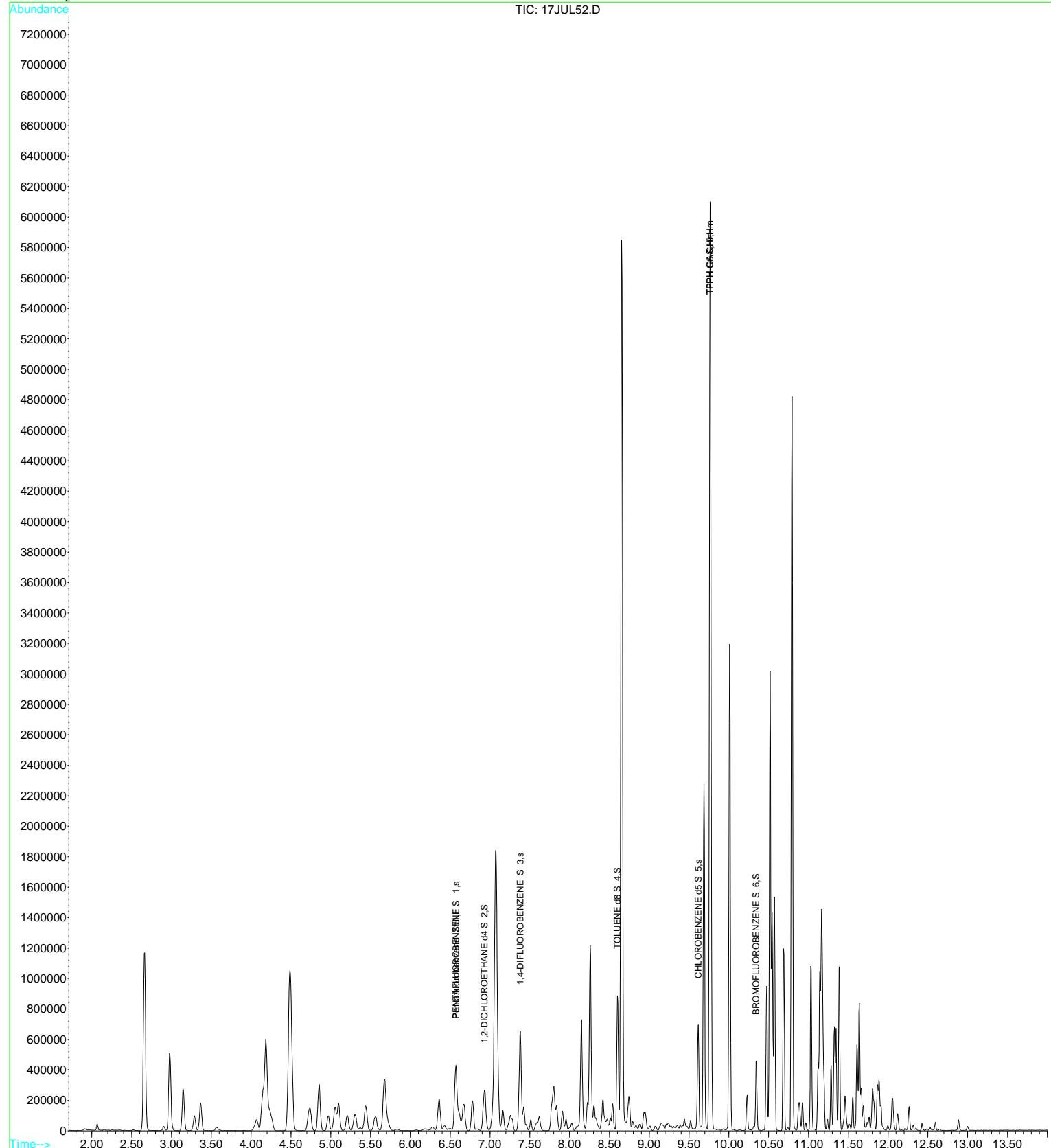
Target Compounds

					Qvalue
8) TPPH-GAS	9.76	TIC	80422572m	1357.26	ug/L
9) TPPH C6-C10	9.76	TIC	54230618m	1358.10	ug/L

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL52.D Vial: 52
 Acq On : 18 Jul 2017 12:46 am Operator: MGC
 Sample : 1712538-CALF Inst : MS-V5
 Misc : 1 VO-109-70474;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 18 7:16 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\05-1939\TPPH5.M (RTE Integrator)
 Title : EPA Method TPPH Gasoline
 Last Update : Thu Jul 06 06:15:28 2017
 Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL53.D Vial: 53
 Acq On : 18 Jul 2017 1:09 am Operator: MGC
 Sample : 1712538-CALG Inst : MS-V5
 Misc : 1 VO-109-70475;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 18 7:18 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
 Title : EPA Method TPPH Gasoline
 Last Update : Thu Jul 06 06:15:28 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	214428	10.00	ug/L	0.00

System Monitoring Compounds

2) PENTAFLUOROBENZENE S 1	6.57	TIC	1509629m	13.29	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.93	TIC	903792m	14.50	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	1605859m	13.72	ug/L	-0.01
5) TOLUENE d8 S 4	8.60	TIC	1364310m	13.58	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	977979m	13.63	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	633462m	13.42	ug/L	0.00

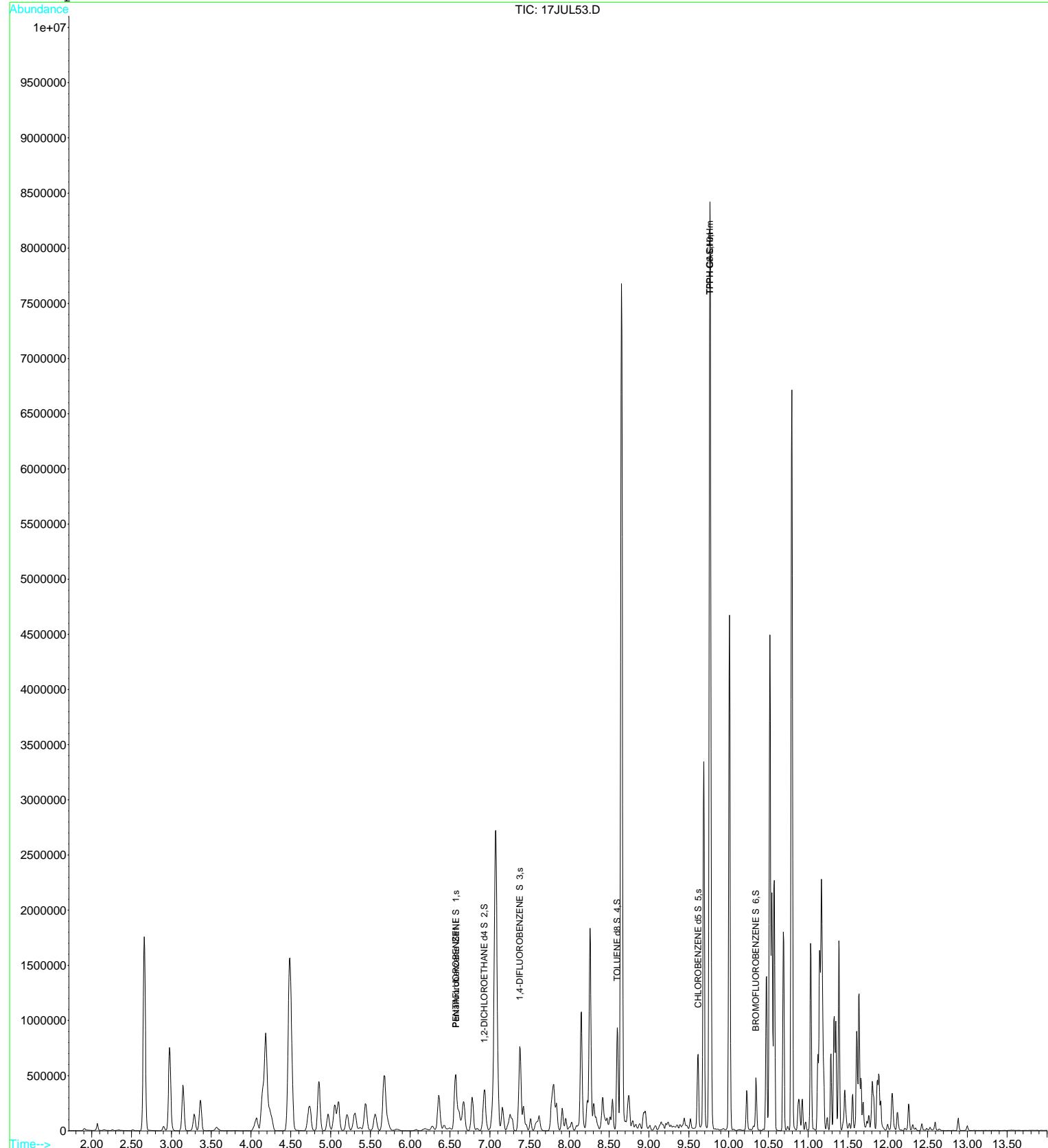
Target Compounds

				Qvalue
8) TPPH-GAS	9.76	TIC	118942110m	1964.06 ug/L
9) TPPH C6-C10	9.76	TIC	79099535m	1938.19 ug/L

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL53.D Vial: 53
 Acq On : 18 Jul 2017 1:09 am Operator: MGC
 Sample : 1712538-CALG Inst : MS-V5
 Misc : 1 VO-109-70475;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 18 7:18 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\05-1939\TPPH5.M (RTE Integrator)
 Title : EPA Method TPPH Gasoline
 Last Update : Thu Jul 06 06:15:28 2017
 Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL54.D Vial: 54
 Acq On : 18 Jul 2017 1:32 am Operator: MGC
 Sample : 1712538-CALH Inst : MS-V5
 Misc : 1 VO-109-70476;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 18 7:19 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
 Title : EPA Method TPPH Gasoline
 Last Update : Thu Jul 06 06:15:28 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	210761	10.00	ug/L	0.00

System Monitoring Compounds

2) PENTAFLUOROBENZENE S 1	6.57	TIC	1839700m	16.47	ug/L	-0.01
3) 1,2-DICHLOROETHANE d4 S 2	6.94	TIC	1173334m	19.15	ug/L	0.01
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	1898061m	16.50	ug/L	-0.01
5) TOLUENE d8 S 4	8.60	TIC	1544544m	15.64	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	1056122m	14.97	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	631481m	13.61	ug/L	0.00

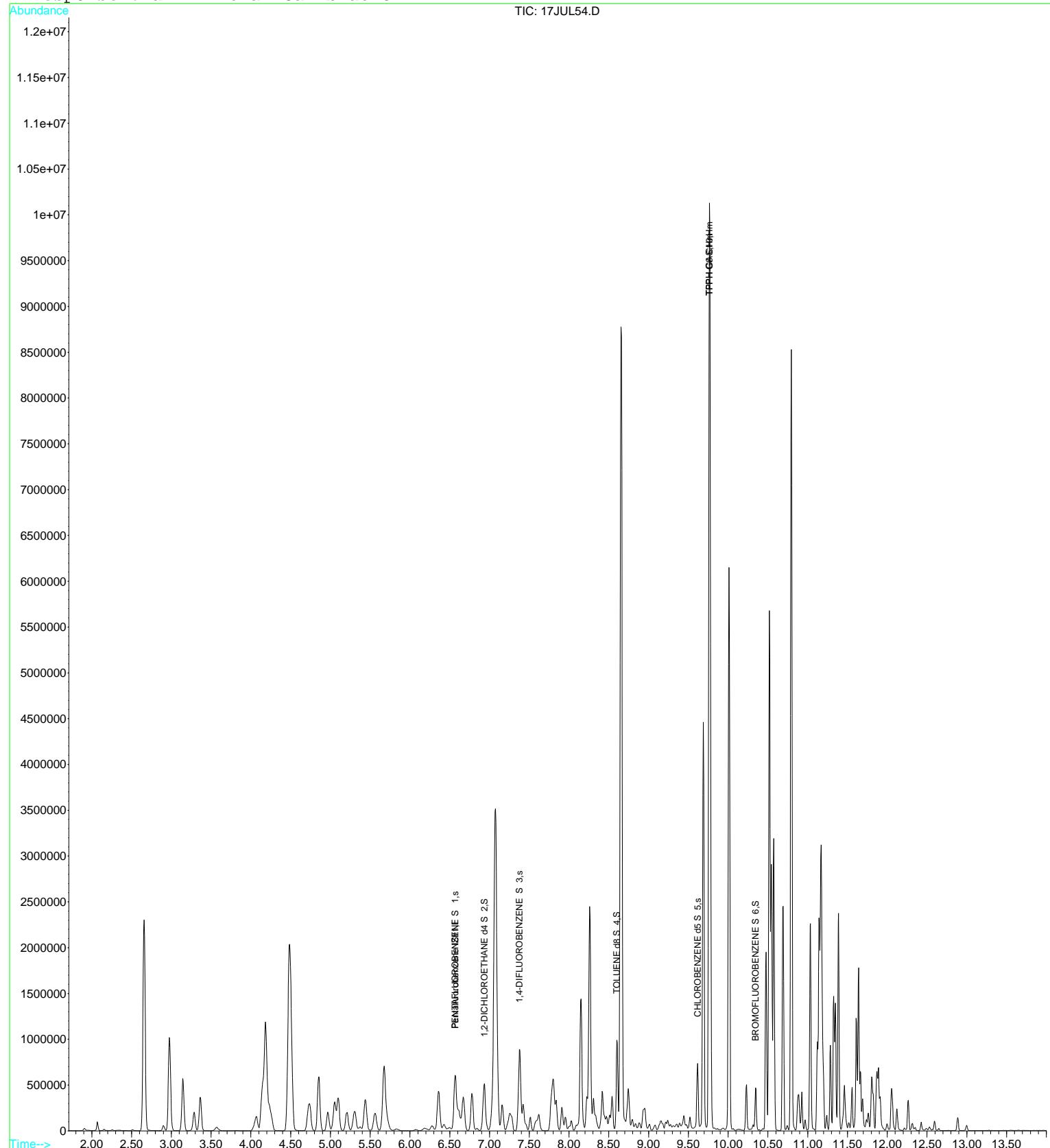
Target Compounds

				Qvalue
8) TPPH-GAS	9.76	TIC	158799376m	2667.84 ug/L
9) TPPH C6-C10	9.76	TIC	104534866m	2606.00 ug/L

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL54.D Vial: 54
 Acq On : 18 Jul 2017 1:32 am Operator: MGC
 Sample : 1712538-CALH Inst : MS-V5
 Misc : 1 VO-109-70476;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 18 7:19 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\05-1939\TPPH5.M (RTE Integrator)
 Title : EPA Method TPPH Gasoline
 Last Update : Thu Jul 06 06:15:28 2017
 Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL55.D Vial: 55
 Acq On : 18 Jul 2017 1:55 am Operator: MGC
 Sample : 1712538-CALI Inst : MS-V5
 Misc : 1 VO-109-70477;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 18 7:20 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
 Title : EPA Method TPPH Gasoline
 Last Update : Thu Jul 06 06:15:28 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	228564	10.00	ug/L	0.00

System Monitoring Compounds

2) PENTAFLUOROBENZENE S 1	6.57	TIC	2313492m	19.10	ug/L	-0.01
3) 1,2-DICHLOROETHANE d4 S 2	6.93	TIC	1481531m	22.30	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	2246811m	18.01	ug/L	-0.01
5) TOLUENE d8 S 4	8.60	TIC	1660426m	15.50	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.61	TIC	1178573m	15.40	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.35	TIC	685683m	13.63	ug/L	0.00

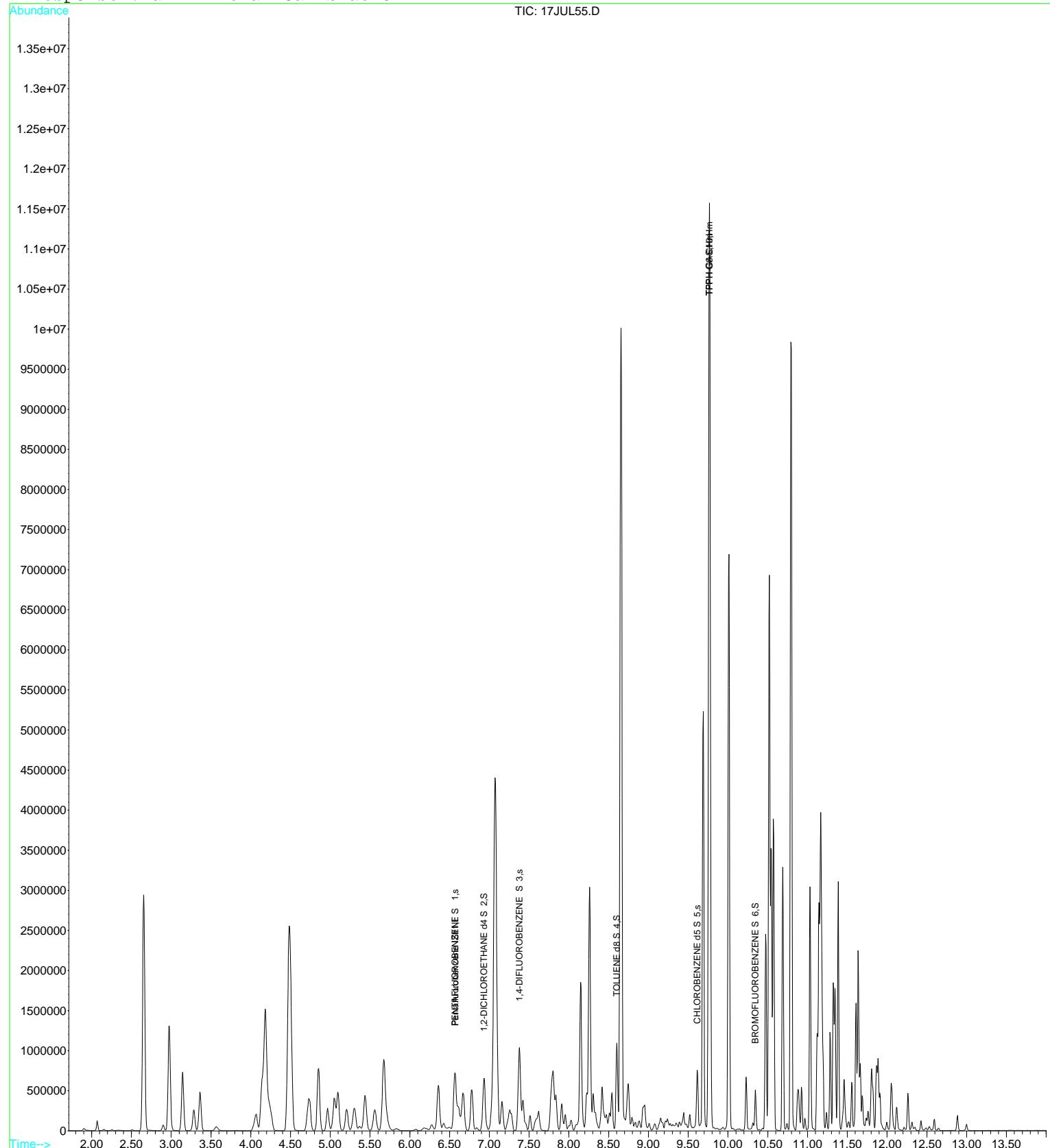
Target Compounds

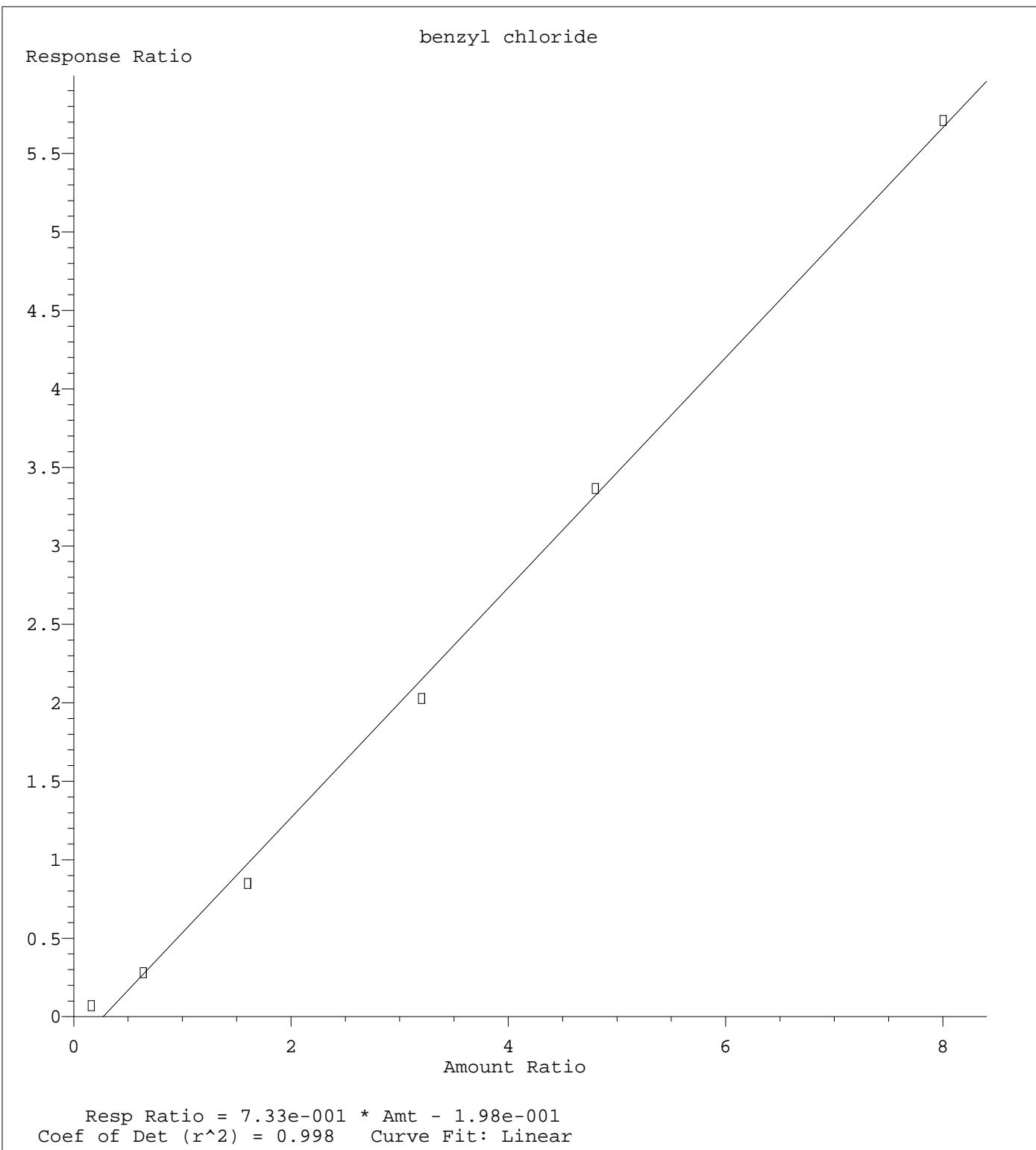
				Qvalue
8) TPPH-GAS	9.77	TIC	198270607m	3071.51 ug/L
9) TPPH C6-C10	9.77	TIC	129763331m	2982.96 ug/L

Quantitation Report

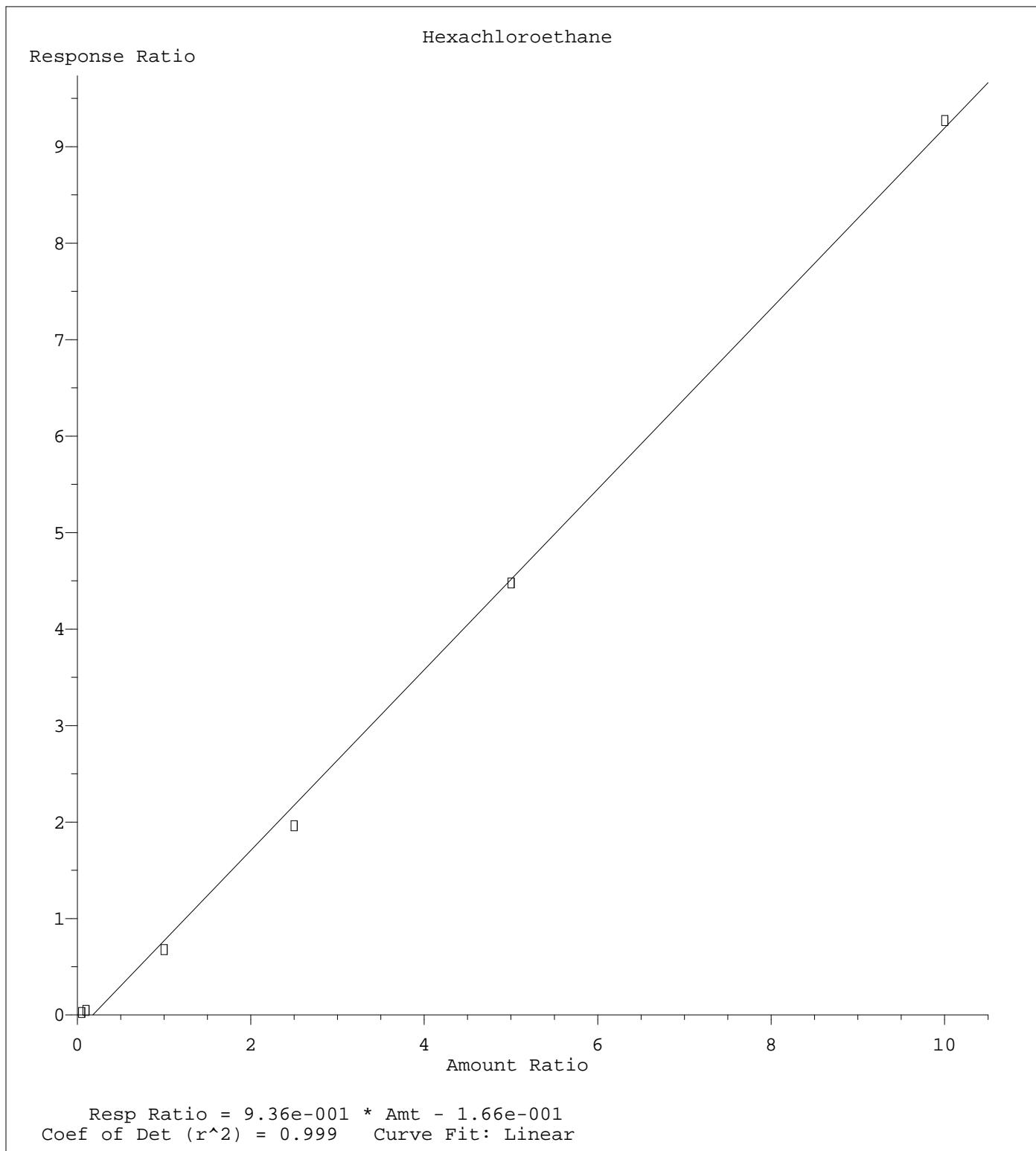
Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL55.D Vial: 55
 Acq On : 18 Jul 2017 1:55 am Operator: MGC
 Sample : 1712538-CALI Inst : MS-V5
 Misc : 1 VO-109-70477;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 18 7:20 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\05-1939\TPPH5.M (RTE Integrator)
 Title : EPA Method TPPH Gasoline
 Last Update : Thu Jul 06 06:15:28 2017
 Response via : Initial Calibration





Method Name: C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M
Calibration Table Last Updated: Fri Jul 21 04:19:15 2017



Method Name: C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M
Calibration Table Last Updated: Thu Jul 20 11:28:22 2017



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Raw Data - ICV

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL12.D Vial: 12
 Acq On : 20 Jul 2017 12:00 pm Operator: MGC
 Sample : 1712752-ICV1 Inst : MS-V5
 Misc : 1 VO-109-70513;25ML Multipllr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 12:46 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	184644	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	285117	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	74559	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	53963	10.01	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	100.10%
31) Toluene d8 SMC#2	8.60	98	343093	9.74	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	97.40%
49) Bromofluorobenzene SMC#3	10.34	95	115722	10.39	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	103.90%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.76	85	241916	26.33	ug/L
3) Chloromethane	1.95	50	378706	21.80	ug/L
4) Vinyl chloride	2.07	62	338693	24.48	ug/L #
5) Bromomethane	2.44	94	188479	25.11	ug/L #
6) Chloroethane	2.57	64	229100	24.11	ug/L
7) Trichlorofluoromethane	2.87	101	290783	25.57	ug/L
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	206626	26.47	ug/L #
9) 1,1-Dichloroethene	3.51	61	386451	25.94	ug/L
10) Methylene chloride	4.15	84	198309	24.89	ug/L
11) MTBE	4.48	73	285059	25.57	ug/L #
12) T-1,2-dichloroethene	4.50	96	245512	26.54	ug/L
13) 1,1-Dichloroethane	5.05	63	503562	25.49	ug/L
14) 2,2-Dichloropropane	5.82	77	288286	25.93	ug/L
15) Cis-1,2-dichloroethene	5.82	96	244222	25.33	ug/L
16) Bromochloromethane	6.18	128	75372	24.53	ug/L #
17) Chloroform	6.32	83	348453	24.93	ug/L
18) 1,1,1-Trichloroethane	6.53	97	312087	25.79	ug/L #
19) 1,1-Dichloropropene	6.72	75	308677	24.42	ug/L
20) Carbon tetrachloride	6.71	119	211410	25.48	ug/L
22) 1,2-Dichloroethane	7.00	62	183710	24.46	ug/L #
23) Benzene	6.94	78	941279	24.89	ug/L #
25) Trichloroethene	7.60	130	248559	25.39	ug/L
26) 1,2-Dichloropropane	7.83	63	261996	24.22	ug/L
27) Dibromomethane	7.90	93	73001	26.74	ug/L
28) Bromodichloromethane	8.05	83	207514	25.28	ug/L
29) 2-ceve	8.27	63	285733	102.27	ug/L #
30) Cis-1,3-dichloropropene	8.40	75	267335	26.09	ug/L
32) Toluene	8.65	92	616474	24.96	ug/L
33) Trans-1,3-dichloropropene	8.82	75	174804	26.13	ug/L #
34) 1,1,2-Trichloroethane	8.97	97	111939	25.22	ug/L
35) Tetrachloroethene (PCE)	9.03	166	239008	25.47	ug/L
36) 1,3-Dichloropropane	9.08	76	170622	23.67	ug/L
37) Dibromochloromethane	9.23	129	113856	26.55	ug/L #
38) 1,2-Dibromoethane	9.32	107	96637	26.20	ug/L
40) Chlorobenzene	9.64	112	577549	23.36	ug/L
41) 1,1,1,2-Tetrachloroethane	9.69	131	163410	26.86	ug/L
42) Ethylbenzene	9.69	106	374920	25.81	ug/L
43) P+m-Xylene	9.77	106	908616	51.13	ug/L
44) O-Xylene	10.01	106	421259	25.65	ug/L
45) Styrene	10.02	104	662005	26.45	ug/L
46) Bromoform	10.15	173	48942	26.74	ug/L #
47) Isopropylbenzene	10.23	105	1115723	26.25	ug/L
48) 1,1,2,2-Tetrachloroethane	10.40	83	105100	25.92	ug/L
50) 1,2,3-Trichloropropane	10.45	110	22372	25.96	ug/L #
51) n-propylbenzene	10.48	91	1339682	24.27	ug/L

(#) = qualifier out of range (m) = manual integration

20JUL12.D 82605.M Thu Jul 20 12:47:21 2017

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL12.D Vial: 12
 Acq On : 20 Jul 2017 12:00 pm Operator: MGC
 Sample : 1712752-ICV1 Inst : MS-V5
 Misc : 1 VO-109-70513;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 12:46 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) bromobenzene	10.44	156	219690	25.23	ug/L	88
53) 1,3,5-trimethylbenzene	10.57	105	949684	27.00	ug/L	93
54) 2-chlorotoluene	10.54	91	842498	24.16	ug/L	98
55) 4-chlorotoluene	10.61	91	767453	24.37	ug/L	96
56) tert-butylbenzene	10.76	119	882705	25.40	ug/L	96
57) 1,2,4-trimethylbenzene	10.79	105	907566	26.05	ug/L	94
58) sec-butylbenzene	10.89	105	1254394	26.64	ug/L	100
59) 4-isopropyltoluene	10.97	119	1024754	26.69	ug/L	97
60) 1,3-Dichlorobenzene	10.97	146	453670	24.34	ug/L	95
61) 1,4-Dichlorobenzene	11.03	146	444088	24.38	ug/L	96
62) n-butylbenzene	11.19	91	933671	26.10	ug/L	99
63) 1,2-Dichlorobenzene	11.23	146	386179	24.02	ug/L	97
64) Hexachloroethane	11.40	117	135394	21.18	ug/L #	69
65) 1,2-dibromo-3-chloropropan	11.67	75	15398	28.17	ug/L	91
66) 1,2,4-trichlorobenzene	12.11	180	251966	27.06	ug/L	100
67) hexachlorobutadiene	12.17	225	162539	25.21	ug/L #	84
68) naphthalene	12.26	128	310035	26.50	ug/L	100
69) 1,2,3-trichlorobenzene	12.38	180	208438	26.67	ug/L #	89

(#) = qualifier out of range (m) = manual integration
 20JUL12.D 82605.M Thu Jul 20 12:47:21 2017



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Raw Data - ICB

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL14.D Vial: 14
 Acq On : 20 Jul 2017 12:46 pm Operator: MGC
 Sample : 1712752-ICB1 Inst : MS-V5
 Misc : 1 ICB1;25ML Multipllr: 1.00

MS Integration Params: rteint.p
 Quant Time: Jul 20 13:51 2017

Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)

Title : EPA Method 624/524.2/8260

Last Update : Thu Jul 20 11:28:22 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	181261	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	281231	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	73863	10.00	ug/L	0.00

System Monitoring Compounds

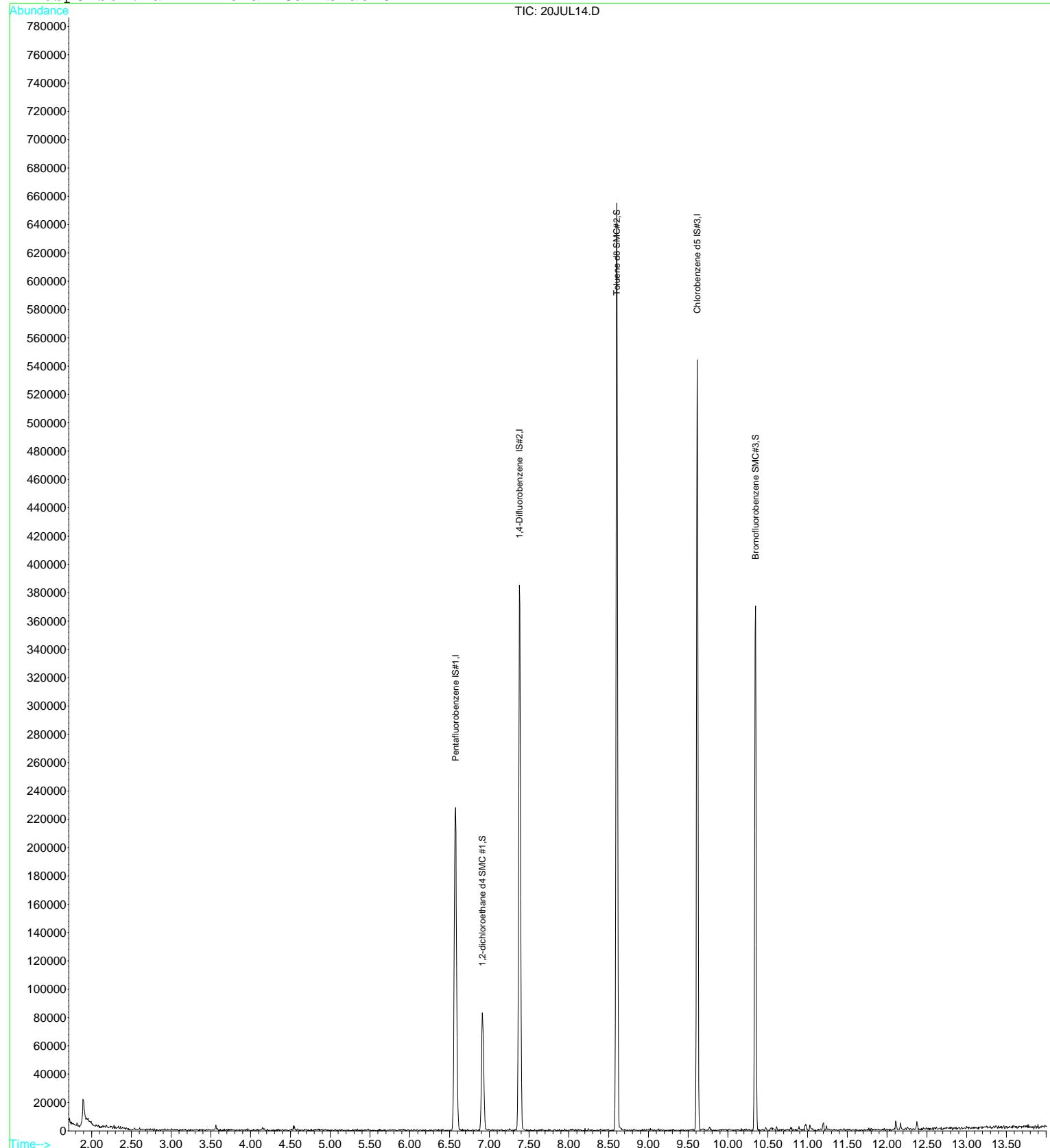
21) 1,2-dichloroethane d4 SMC	6.91	65	55952	10.57	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	105.70%
31) Toluene d8 SMC#2	8.60	98	342270	9.86	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	98.60%
49) Bromofluorobenzene SMC#3	10.35	95	109375	9.92	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	99.20%

Target Compounds Qvalue

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL14.D Vial: 14
 Acq On : 20 Jul 2017 12:46 pm Operator: MGC
 Sample : 1712752-ICB1 Inst : MS-V5
 Misc : 1 ICB1;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 13:51 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration





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Raw Data - CCV

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL02.D Vial: 2
 Acq On : 24 Jul 2017 4:40 am Operator: MGC
 Sample : 1712906-CCV1 Inst : MS-V5
 Misc : 1 VO-109-70505;25ML Multipllr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 4:54:2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/82605
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	191086	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	299997	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	76029	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	54215	9.71	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	97.10%
31) Toluene d8 SMC#2	8.60	98	357517	9.65	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	96.50%
49) Bromofluorobenzene SMC#3	10.35	95	112301	9.89	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	98.90%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.76	85	247514	26.03	ug/L	96
3) Chloromethane	1.94	50	351078	19.53	ug/L	98
4) Vinyl chloride	2.07	62	351589	24.55	ug/L	# 66
5) Bromomethane	2.44	94	137238	17.67	ug/L	90
6) Chloroethane	2.57	64	249547	25.38	ug/L	97
7) Trichlorofluoromethane	2.87	101	300999	25.58	ug/L	99
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	225487	27.91	ug/L	# 83
9) 1,1-Dichloroethene	3.52	61	391922	25.42	ug/L	96
10) Methylene chloride	4.15	84	201316	24.42	ug/L	96
11) MTBE	4.48	73	273193	23.68	ug/L	# 80
12) T-1,2-dichloroethene	4.50	96	243097	25.40	ug/L	91
13) 1,1-Dichloroethane	5.05	63	515148	25.19	ug/L	99
14) 2,2-Dichloropropane	5.83	77	313095	27.21	ug/L	87
15) Cis-1,2-dichloroethene	5.82	96	249280	24.98	ug/L	95
16) Bromochloromethane	6.18	128	80806	25.41	ug/L	# 85
17) Chloroform	6.32	83	354188	24.48	ug/L	94
18) 1,1,1-Trichloroethane	6.53	97	318840	25.46	ug/L	# 76
19) 1,1-Dichloropropene	6.72	75	340231	26.01	ug/L	95
20) Carbon tetrachloride	6.71	119	225187	26.23	ug/L	93
22) 1,2-Dichloroethane	7.00	62	180786	23.26	ug/L	# 86
23) Benzene	6.93	78	1016021	25.97	ug/L	# 7
25) Trichloroethene	7.60	130	260620	25.30	ug/L	89
26) 1,2-Dichloropropane	7.83	63	284542	25.00	ug/L	93
27) Dibromomethane	7.91	93	70974	24.70	ug/L	98
28) Bromodichloromethane	8.06	83	213256	24.69	ug/L	91
29) 2-ceve	8.28	63	265176	90.21	ug/L	# 73
30) Cis-1,3-dichloropropene	8.40	75	286320	26.55	ug/L	97
32) Toluene	8.66	92	664213	25.56	ug/L	92
33) Trans-1,3-dichloropropene	8.82	75	185532	26.36	ug/L	# 85
34) 1,1,2-Trichloroethane	8.97	97	110341	23.63	ug/L	87
35) Tetrachloroethene (PCE)	9.03	166	247829	25.10	ug/L	94
36) 1,3-Dichloropropane	9.08	76	180820	23.84	ug/L	92
37) Dibromochloromethane	9.23	129	116877	25.90	ug/L	# 95
38) 1,2-Dibromoethane	9.32	107	92174	23.75	ug/L	96
40) Chlorobenzene	9.63	112	639705	25.37	ug/L	90
41) 1,1,1,2-Tetrachloroethane	9.69	131	171398	27.63	ug/L	98
42) Ethylbenzene	9.69	106	395526	26.70	ug/L	82
43) P+m-Xylene	9.77	106	940326	51.89	ug/L	100
44) O-Xylene	10.01	106	431989	25.80	ug/L	91
45) Styrene	10.02	104	678999	26.60	ug/L	92
46) Bromoform	10.16	173	51691	27.70	ug/L	# 100
47) Isopropylbenzene	10.23	105	1167207	26.93	ug/L	98
48) 1,1,2,2-Tetrachloroethane	10.41	83	107510	26.01	ug/L	92
50) 1,2,3-Trichloropropane	10.45	110	21410	24.36	ug/L	# 19
51) n-propylbenzene	10.47	91	1448245	25.73	ug/L	94

(#) = qualifier out of range (m) = manual integration

24JUL02.D 82605.M Mon Jul 24 05:21:41 2017

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL02.D Vial: 2
 Acq On : 24 Jul 2017 4:40 am Operator: MGC
 Sample : 1712906-CCV1 Inst : MS-V5
 Misc : 1 VO-109-70505;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 4:54 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) bromobenzene	10.44	156	218683	24.63	ug/L	87
53) 1,3,5-trimethylbenzene	10.57	105	975328	27.19	ug/L	92
54) 2-chlorotoluene	10.54	91	930904	26.18	ug/L	99
55) 4-chlorotoluene	10.61	91	848709	26.43	ug/L	97
56) tert-butylbenzene	10.76	119	920178	25.97	ug/L	97
57) 1,2,4-trimethylbenzene	10.79	105	929079	26.15	ug/L	96
58) sec-butylbenzene	10.89	105	1328855	27.68	ug/L	99
59) 4-isopropyltoluene	10.97	119	1059945	27.07	ug/L	97
60) 1,3-Dichlorobenzene	10.98	146	503256	26.48	ug/L	93
61) 1,4-Dichlorobenzene	11.03	146	487827	26.26	ug/L	95
62) n-butylbenzene	11.20	91	992023	27.19	ug/L	99
63) 1,2-Dichlorobenzene	11.24	146	413146	25.20	ug/L	98
64) Hexachloroethane	11.40	117	162883	24.67	ug/L #	66
65) 1,2-dibromo-3-chloropropan	11.67	75	14068	25.24	ug/L	96
66) 1,2,4-trichlorobenzene	12.11	180	235563	24.81	ug/L	99
67) hexachlorobutadiene	12.17	225	161452	24.56	ug/L #	86
68) naphthalene	12.26	128	303955	25.48	ug/L	100
69) 1,2,3-trichlorobenzene	12.38	180	184595	23.16	ug/L #	90

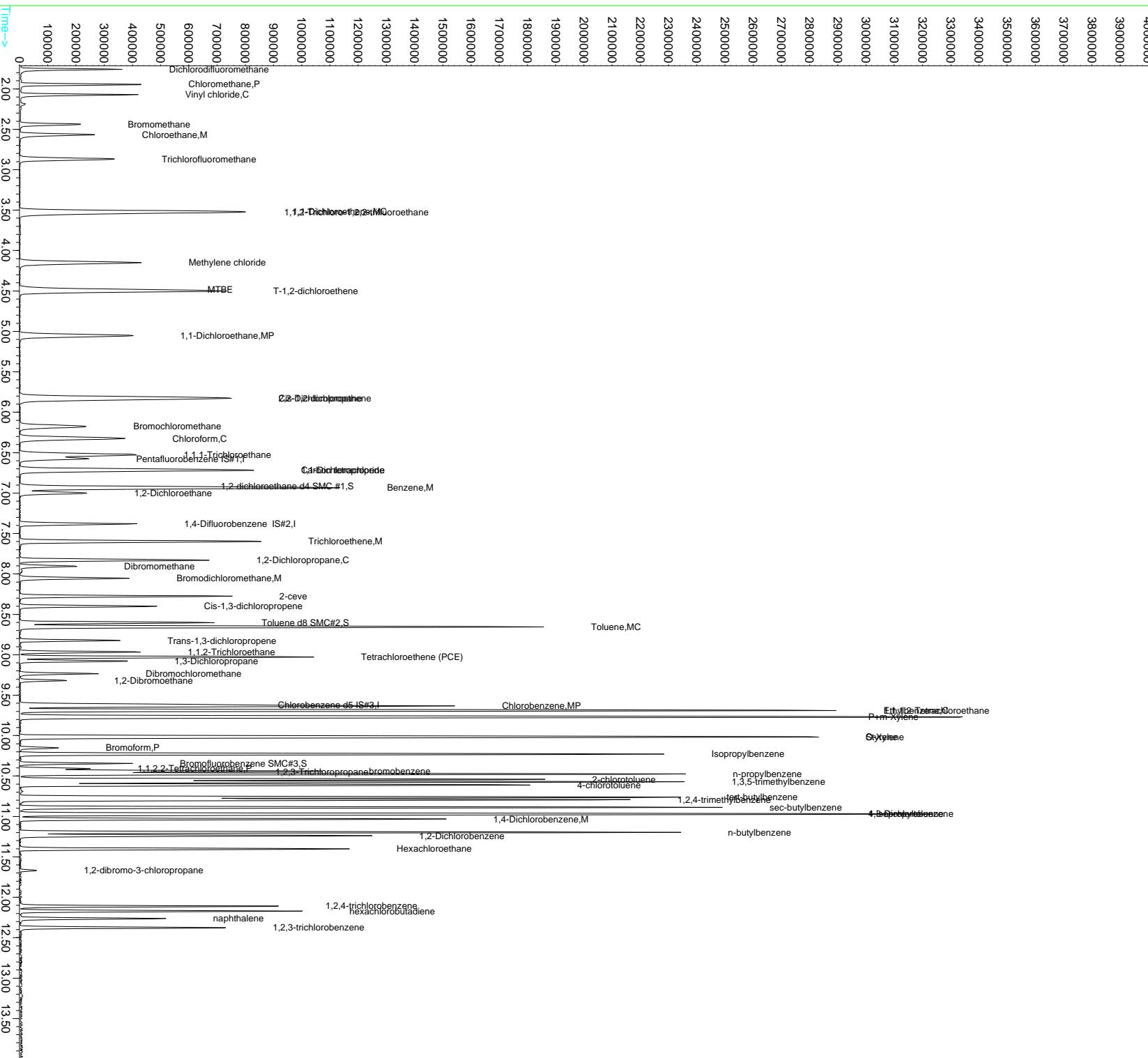
(#) = qualifier out of range (m) = manual integration
 24JUL02.D 82605.M Mon Jul 24 05:21:41 2017

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL02.D Vial: 2
 Acq On : 24 Jul 2017 4:40 am Operator: MGC
 Sample : 1712906-CCV1 Inst: MS-V5
 Misc : 1 VO-109-70505;25ML Multipl: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 4:54 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration

TIC: 24JUL02.D



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL32.D Vial: 32
 Acq On : 24 Jul 2017 4:35 pm Operator: MGC
 Sample : 1712906-CCV4 Inst : MS-V5
 Misc : 1 VO-109-70505;25ML Multipllr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 16:49 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)

Title : EPA Method 624/524.2/8260

Last Update : Thu Jul 20 11:28:22 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	197596	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	299126	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	77983	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	55124	9.55	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	95.50%
31) Toluene d8 SMC#2	8.60	98	365586	9.90	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	99.00%
49) Bromofluorobenzene SMC#3	10.34	95	116058	9.97	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	99.70%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.76	85	224452	22.83	ug/L
3) Chloromethane	1.95	50	325443	17.51	ug/L
4) Vinyl chloride	2.07	62	319839	21.60	ug/L #
5) Bromomethane	2.44	94	138882	17.29	ug/L
6) Chloroethane	2.57	64	231161	22.73	ug/L
7) Trichlorofluoromethane	2.87	101	286767	23.56	ug/L
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	206173	24.68	ug/L #
9) 1,1-Dichloroethene	3.51	61	373242	23.41	ug/L
10) Methylene chloride	4.15	84	199931	23.45	ug/L
11) MTBE	4.49	73	278213	23.32	ug/L #
12) T-1,2-dichloroethene	4.50	96	231639	23.40	ug/L
13) 1,1-Dichloroethane	5.06	63	487808	23.07	ug/L
14) 2,2-Dichloropropane	5.83	77	274260	23.05	ug/L
15) Cis-1,2-dichloroethene	5.82	96	239640	23.22	ug/L
16) Bromochloromethane	6.18	128	77542	23.58	ug/L #
17) Chloroform	6.33	83	341804	22.85	ug/L
18) 1,1,1-Trichloroethane	6.53	97	295829	22.84	ug/L #
19) 1,1-Dichloropropene	6.72	75	320856	23.72	ug/L
20) Carbon tetrachloride	6.71	119	206349	23.24	ug/L
22) 1,2-Dichloroethane	7.00	62	181368	22.56	ug/L #
23) Benzene	6.94	78	958442	23.69	ug/L #
25) Trichloroethene	7.60	130	252342	24.57	ug/L
26) 1,2-Dichloropropane	7.83	63	270072	23.80	ug/L
27) Dibromomethane	7.90	93	68682	23.98	ug/L
28) Bromodichloromethane	8.05	83	208045	24.16	ug/L
29) 2-ceve	8.27	63	274425	93.63	ug/L #
30) Cis-1,3-dichloropropene	8.40	75	265647	24.71	ug/L
32) Toluene	8.66	92	628635	24.26	ug/L
33) Trans-1,3-dichloropropene	8.82	75	181569	25.87	ug/L #
34) 1,1,2-Trichloroethane	8.96	97	110367	23.70	ug/L
35) Tetrachloroethene (PCE)	9.03	166	236229	24.00	ug/L
36) 1,3-Dichloropropane	9.08	76	178756	23.64	ug/L
37) Dibromochloromethane	9.24	129	113696	25.27	ug/L #
38) 1,2-Dibromoethane	9.32	107	90753	23.45	ug/L
40) Chlorobenzene	9.64	112	616824	23.85	ug/L
41) 1,1,1,2-Tetrachloroethane	9.69	131	165157	25.95	ug/L
42) Ethylbenzene	9.69	106	376279	24.77	ug/L
43) P+m-Xylene	9.77	106	889369	47.85	ug/L
44) O-Xylene	10.01	106	425448	24.77	ug/L
45) Styrene	10.02	104	658963	25.17	ug/L
46) Bromoform	10.15	173	48187	25.17	ug/L #
47) Isopropylbenzene	10.23	105	1084151	24.39	ug/L
48) 1,1,2,2-Tetrachloroethane	10.41	83	110838	26.14	ug/L
50) 1,2,3-Trichloropropane	10.45	110	22937	25.44	ug/L #
51) n-propylbenzene	10.48	91	1365028	23.64	ug/L

(#) = qualifier out of range (m) = manual integration

24JUL32.D 82605.M Tue Jul 25 09:24:47 2017

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL32.D Vial: 32
 Acq On : 24 Jul 2017 4:35 pm Operator: MGC
 Sample : 1712906-CCV4 Inst : MS-V5
 Misc : 1 VO-109-70505;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 16:49 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) bromobenzene	10.44	156	217323	23.86	ug/L	89
53) 1,3,5-trimethylbenzene	10.57	105	926106	25.17	ug/L	93
54) 2-chlorotoluene	10.54	91	898237	24.63	ug/L	99
55) 4-chlorotoluene	10.61	91	798397	24.24	ug/L	98
56) tert-butylbenzene	10.76	119	968947	26.66	ug/L	87
57) 1,2,4-trimethylbenzene	10.79	105	884811	24.28	ug/L	93
58) sec-butylbenzene	10.89	105	1230613	24.99	ug/L	99
59) 4-isopropyltoluene	10.97	119	998635	24.87	ug/L	98
60) 1,3-Dichlorobenzene	10.98	146	484895	24.87	ug/L	93
61) 1,4-Dichlorobenzene	11.03	146	474885	24.92	ug/L	94
62) n-butylbenzene	11.20	91	902601	24.12	ug/L	99
63) 1,2-Dichlorobenzene	11.24	146	405418	24.11	ug/L	98
64) Hexachloroethane	11.40	117	149115	22.21	ug/L #	69
65) 1,2-dibromo-3-chloropropan	11.66	75	12985	22.72	ug/L	98
66) 1,2,4-trichlorobenzene	12.11	180	230928	23.71	ug/L	99
67) hexachlorobutadiene	12.17	225	158949	23.57	ug/L #	86
68) naphthalene	12.26	128	289073	23.63	ug/L	100
69) 1,2,3-trichlorobenzene	12.38	180	185367	22.68	ug/L #	90

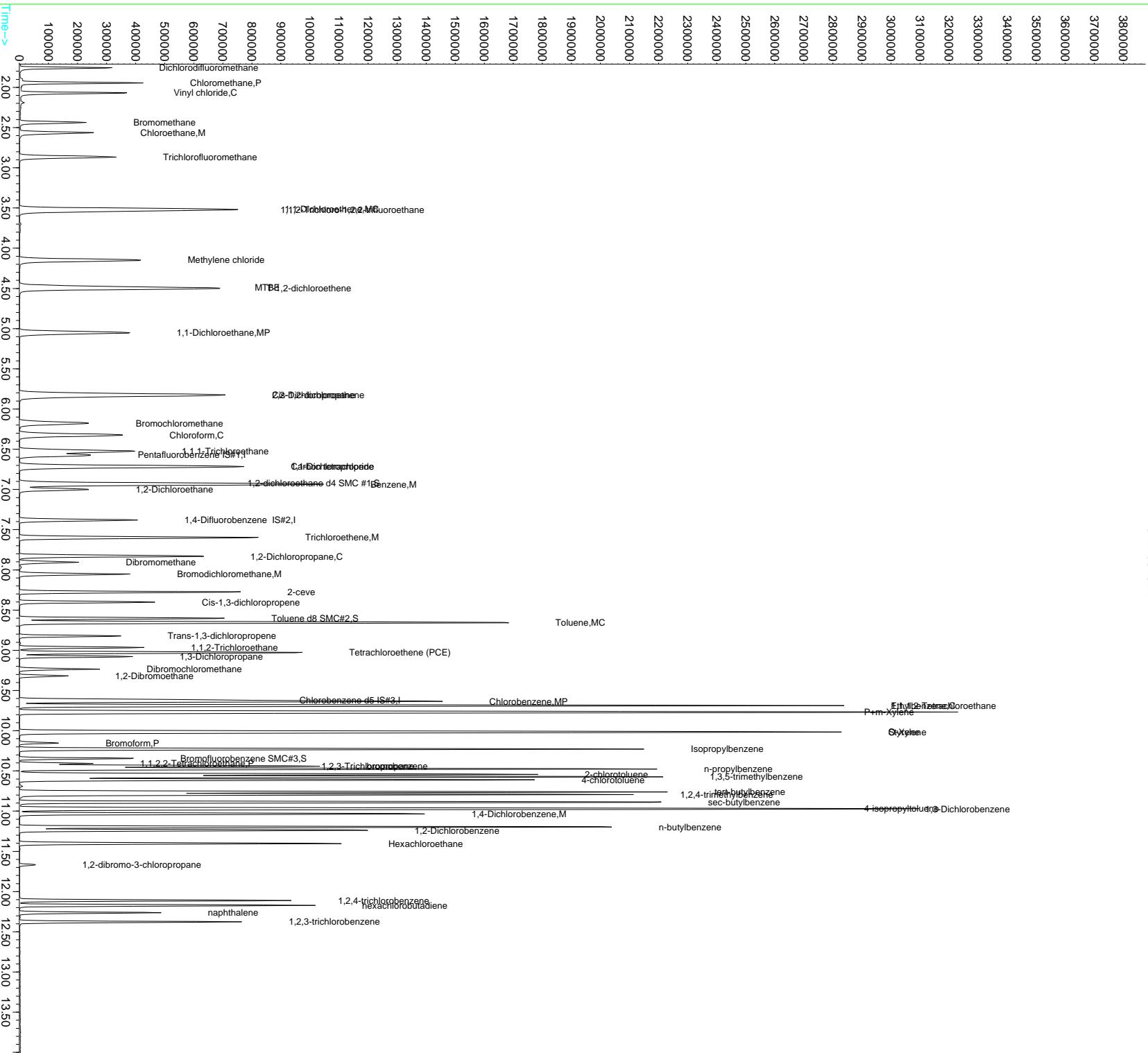
(#) = qualifier out of range (m) = manual integration
 24JUL32.D 82605.M Tue Jul 25 09:24:47 2017

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL32.D Vial: 32
 Acq On : 24 Jul 2017 4:35 pm Operator: MGC
 Sample : 1712906-CCV4 Inst : MS-V5
 Misc : 1 VO-109-70505;25ML Multipl: 1.00
 MS Integration Params: rteint.P
 Quant Time: Jul 24 16:49 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration

TIC: 24JUL32.D



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL62.D Vial: 62
 Acq On : 25 Jul 2017 4:06 am Operator: MGC
 Sample : 1712906-CCV7 Inst : MS-V5
 Misc : 1 VO-109-70505;25ML Multipllr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 25 4:20 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)

Title : EPA Method 624/524.2/8260

Last Update : Thu Jul 20 11:28:22 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	176401	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	265804	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	71558	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	49537	9.61	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	96.10%
31) Toluene d8 SMC#2	8.60	98	326626	9.95	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	99.50%
49) Bromofluorobenzene SMC#3	10.34	95	101553	9.50	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	95.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.76	85	220791	25.15	ug/L
3) Chloromethane	1.95	50	305619	18.42	ug/L
4) Vinyl chloride	2.07	62	313735	23.73	ug/L #
5) Bromomethane	2.44	94	78501	10.95	ug/L #
6) Chloroethane	2.57	64	217231	23.93	ug/L
7) Trichlorofluoromethane	2.87	101	285188	26.25	ug/L
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	195098	26.16	ug/L #
9) 1,1-Dichloroethene	3.51	61	360586	25.33	ug/L
10) Methylene chloride	4.15	84	183719	24.14	ug/L
11) MTBE	4.49	73	257616	24.18	ug/L #
12) T-1,2-dichloroethene	4.50	96	220913	25.00	ug/L
13) 1,1-Dichloroethane	5.05	63	465613	24.67	ug/L
14) 2,2-Dichloropropane	5.83	77	212030	19.96	ug/L
15) Cis-1,2-dichloroethene	5.82	96	225495	24.48	ug/L
16) Bromochloromethane	6.18	128	71829	24.47	ug/L #
17) Chloroform	6.33	83	325101	24.34	ug/L
18) 1,1,1-Trichloroethane	6.53	97	290586	25.13	ug/L #
19) 1,1-Dichloropropene	6.72	75	301164	24.94	ug/L
20) Carbon tetrachloride	6.71	119	198136	25.00	ug/L
22) 1,2-Dichloroethane	7.00	62	180342	25.13	ug/L #
23) Benzene	6.94	78	903743	25.02	ug/L #
25) Trichloroethene	7.60	130	250805	27.48	ug/L
26) 1,2-Dichloropropane	7.83	63	256517	25.44	ug/L
27) Dibromomethane	7.90	93	67150	26.38	ug/L
28) Bromodichloromethane	8.05	83	196322	25.66	ug/L
29) 2-ceve	8.27	63	248751	95.51	ug/L #
30) Cis-1,3-dichloropropene	8.40	75	238953	25.01	ug/L
32) Toluene	8.65	92	594004	25.80	ug/L
33) Trans-1,3-dichloropropene	8.82	75	161008	25.82	ug/L #
34) 1,1,2-Trichloroethane	8.97	97	101530	24.54	ug/L
35) Tetrachloroethene (PCE)	9.03	166	238555	27.27	ug/L
36) 1,3-Dichloropropane	9.08	76	164103	24.42	ug/L
37) Dibromochloromethane	9.23	129	105606	26.41	ug/L #
38) 1,2-Dibromoethane	9.32	107	84310	24.52	ug/L
40) Chlorobenzene	9.63	112	580864	24.48	ug/L
41) 1,1,1,2-Tetrachloroethane	9.69	131	156938	26.88	ug/L
42) Ethylbenzene	9.69	106	355760	25.52	ug/L
43) P+m-Xylene	9.77	106	852445	49.98	ug/L
44) O-Xylene	10.01	106	399097	25.32	ug/L
45) Styrene	10.02	104	613969	25.56	ug/L
46) Bromoform	10.15	173	45070	25.66	ug/L #
47) Isopropylbenzene	10.23	105	1064888	26.10	ug/L
48) 1,1,2,2-Tetrachloroethane	10.40	83	86796	22.31	ug/L
50) 1,2,3-Trichloropropane	10.45	110	21757	26.30	ug/L #
51) n-propylbenzene	10.48	91	1287189	24.30	ug/L

(#) = qualifier out of range (m) = manual integration

24JUL62.D 82605.M Tue Jul 25 12:37:16 2017

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL62.D Vial: 62
 Acq On : 25 Jul 2017 4:06 am Operator: MGC
 Sample : 1712906-CCV7 Inst : MS-V5
 Misc : 1 VO-109-70505;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 25 4:20 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) bromobenzene	10.44	156	208398	24.94	ug/L	91
53) 1,3,5-trimethylbenzene	10.57	105	873692	25.88	ug/L	93
54) 2-chlorotoluene	10.54	91	850192	25.40	ug/L	98
55) 4-chlorotoluene	10.61	91	761285	25.19	ug/L	98
56) tert-butylbenzene	10.76	119	833202	24.98	ug/L	96
57) 1,2,4-trimethylbenzene	10.79	105	844400	25.25	ug/L	96
58) sec-butylbenzene	10.89	105	1180287	26.12	ug/L	99
59) 4-isopropyltoluene	10.97	119	933417	25.33	ug/L	97
60) 1,3-Dichlorobenzene	10.97	146	458134	25.61	ug/L	94
61) 1,4-Dichlorobenzene	11.04	146	444976	25.45	ug/L	95
62) n-butylbenzene	11.19	91	847799	24.69	ug/L	98
63) 1,2-Dichlorobenzene	11.24	146	392002	25.40	ug/L	98
64) Hexachloroethane	11.40	117	125027	20.45	ug/L #	71
65) 1,2-dibromo-3-chloropropan	11.67	75	12761	24.33	ug/L	95
66) 1,2,4-trichlorobenzene	12.11	180	213000	23.83	ug/L	98
67) hexachlorobutadiene	12.17	225	150586	24.34	ug/L #	85
68) naphthalene	12.26	128	273117	24.33	ug/L	100
69) 1,2,3-trichlorobenzene	12.38	180	181441	24.19	ug/L #	94

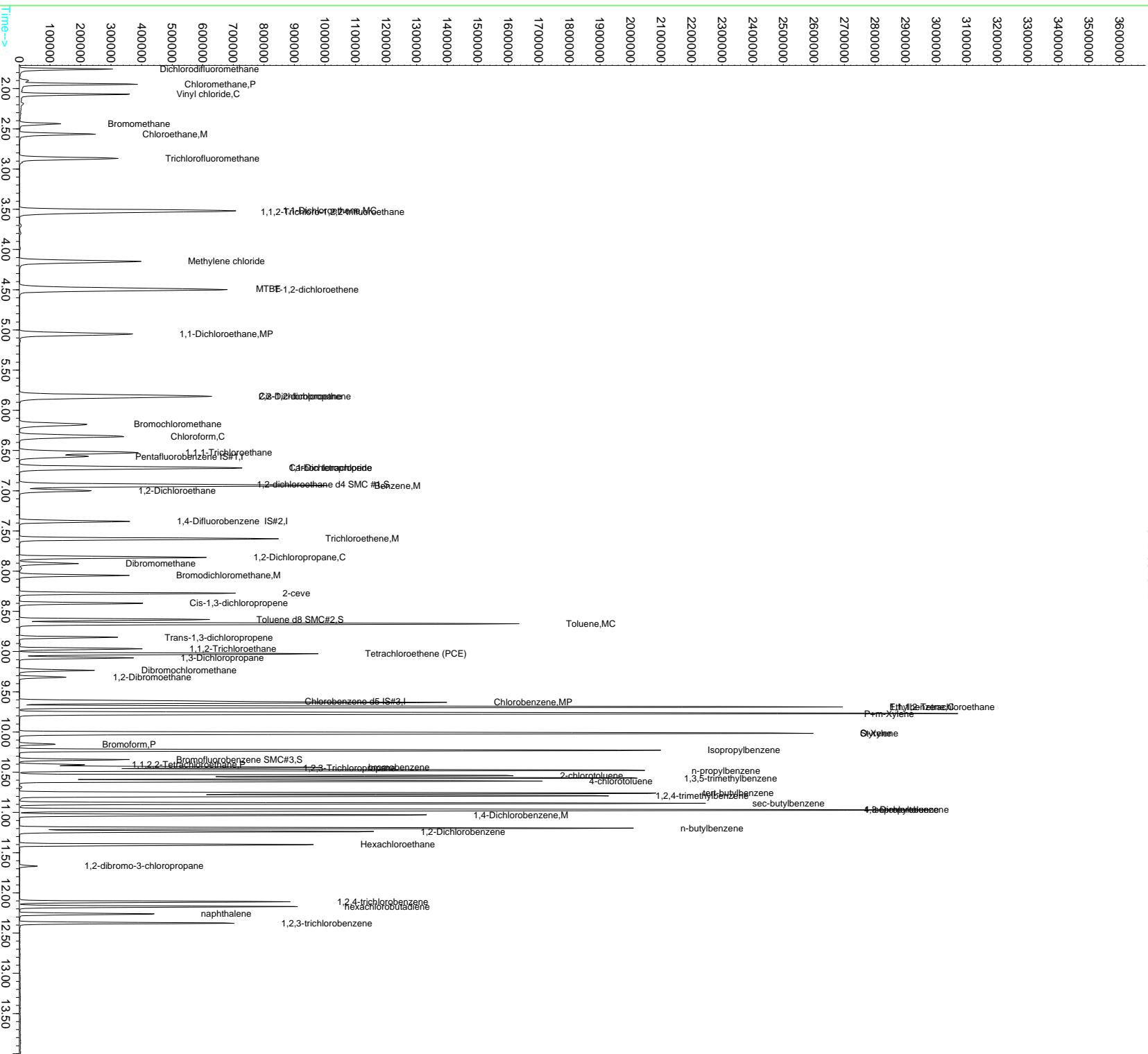
(#) = qualifier out of range (m) = manual integration
 24JUL62.D 82605.M Tue Jul 25 12:37:16 2017

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL62.D Vial: 62
 Acq On : 25 Jul 2017 4:06 am Operator: MGC
 Sample : 1712906-CCV7 Inst : MS-V5
 Misc : 1 VO-109-70505;25ML Multipl: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 25 4:20 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration

TIC: 24JUL62.D





Laboratories, Inc.

Environmental Testing Laboratory Since 1949



Raw Data - CCB

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL05.D Vial: 5
 Acq On : 24 Jul 2017 5:49 am Operator: MGC
 Sample : 1712906-CCB1 Inst : MS-V5
 Misc : 1 CCB1;25ML Multipllr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 24 9:44 2017

Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)

Title : EPA Method 624/524.2/8260

Last Update : Thu Jul 20 11:28:22 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	191728	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	291569	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	74667	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	50970	9.10	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	91.00%
31) Toluene d8 SMC#2	8.61	98	348946	9.69	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	96.90%
49) Bromofluorobenzene SMC#3	10.34	95	108634	9.74	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	97.40%

Target Compounds Qvalue

(#= qualifier out of range (m)= manual integration

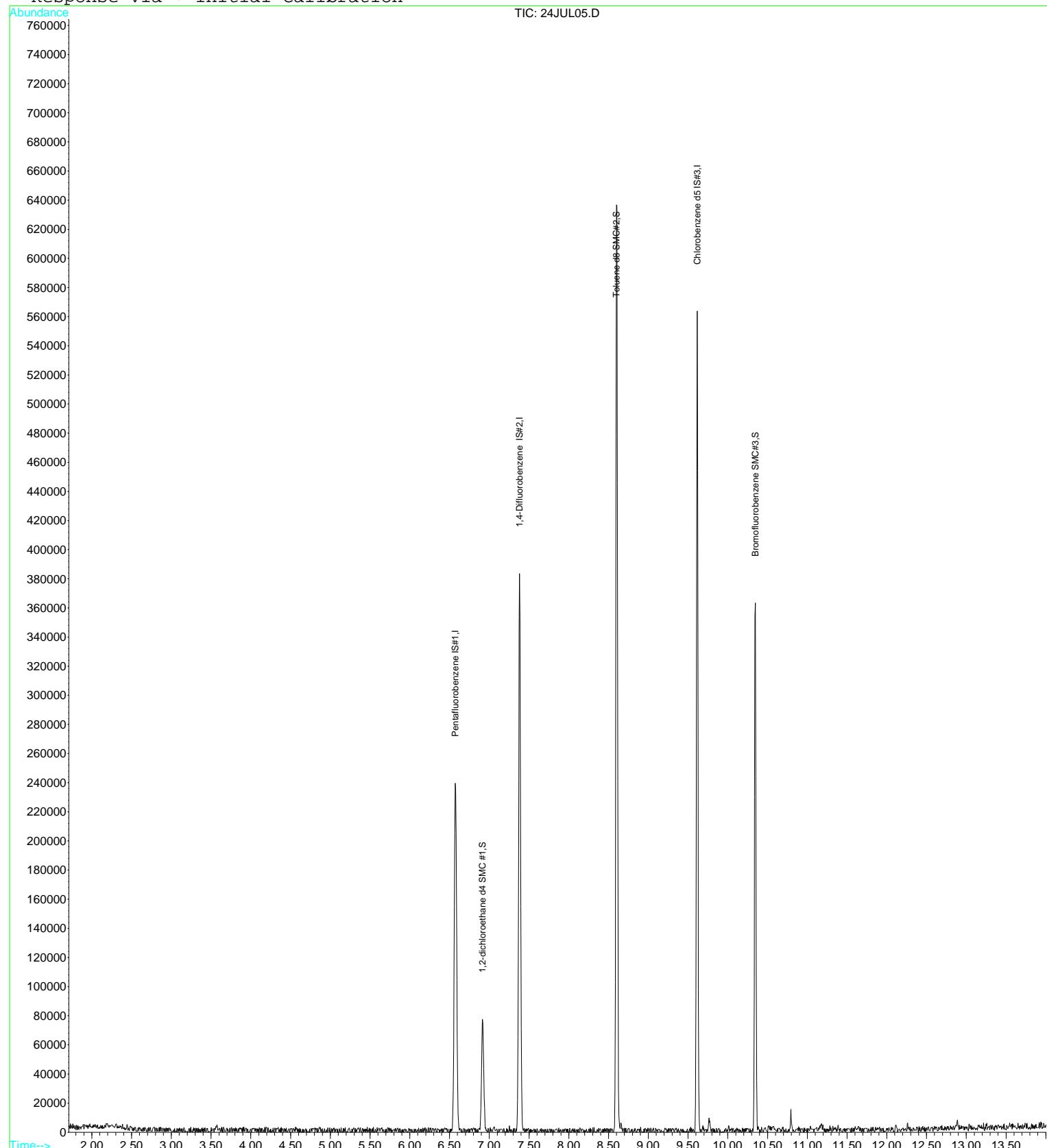
24JUL05.D 82605.M Mon Jul 24 09:44:18 2017

Page 1

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL05.D Vial: 5
 Acq On : 24 Jul 2017 5:49 am Operator: MGC
 Sample : 1712906-CCB1 Inst : MS-V5
 Misc : 1 CCB1;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 9:44 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL05.D Vial: 5
Acq On : 24 Jul 2017 5:49 am Operator: MGC
Sample : 1712906-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00

MS Integration Params: rteint.p
Quant Time: Jul 24 9:44 2017

Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

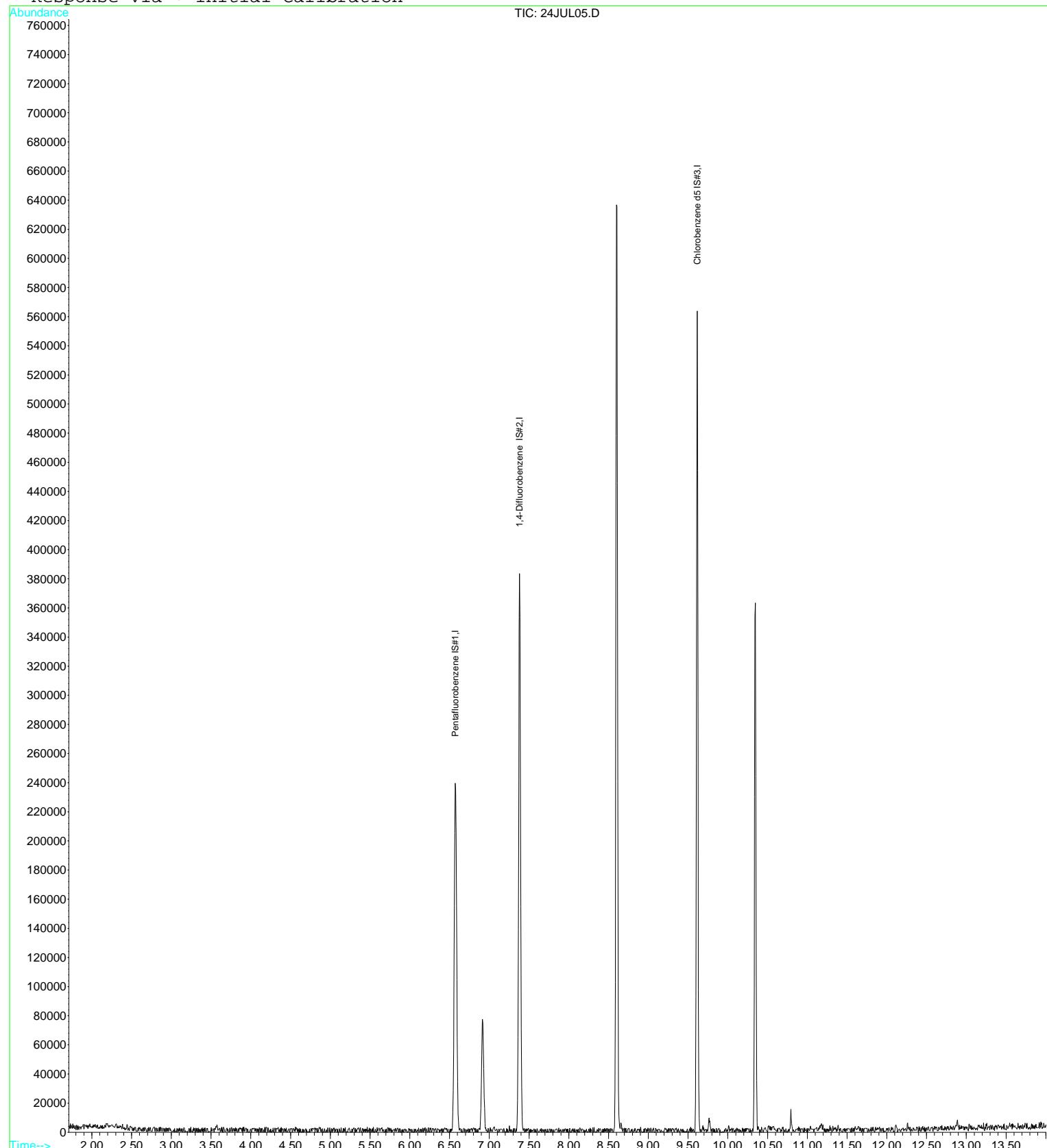
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Pentafluorobenzene IS#1	6.58	168	191728	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	291569	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	74667	10.00	ug/L	0.00

Target Compounds	Qvalue
-----	-----

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL05.D Vial: 5
Acq On : 24 Jul 2017 5:49 am Operator: MGC
Sample : 1712906-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 9:44 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL05.D Vial: 5
 Acq On : 24 Jul 2017 5:49 am Operator: MGC
 Sample : 1712906-CCB1 Inst : MS-V5
 Misc : 1 CCB1;25ML Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 24 9:45 2017

Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)

Title : EPA Method TPPH Gasoline

Last Update : Tue Jul 18 07:29:07 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	191728	10.00	ug/L	0.00

System Monitoring Compounds

2) PENTAFLUOROBENZENE S 1	6.57	TIC	503000m	4.10	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.91	TIC	157839m	2.20	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	654561m	4.98	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	929279m	7.64	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.61	TIC	697431m	7.96	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.35	TIC	458363m	8.35	ug/L	0.00

Target Compounds	Qvalue
------------------	--------

(#= qualifier out of range (m)= manual integration

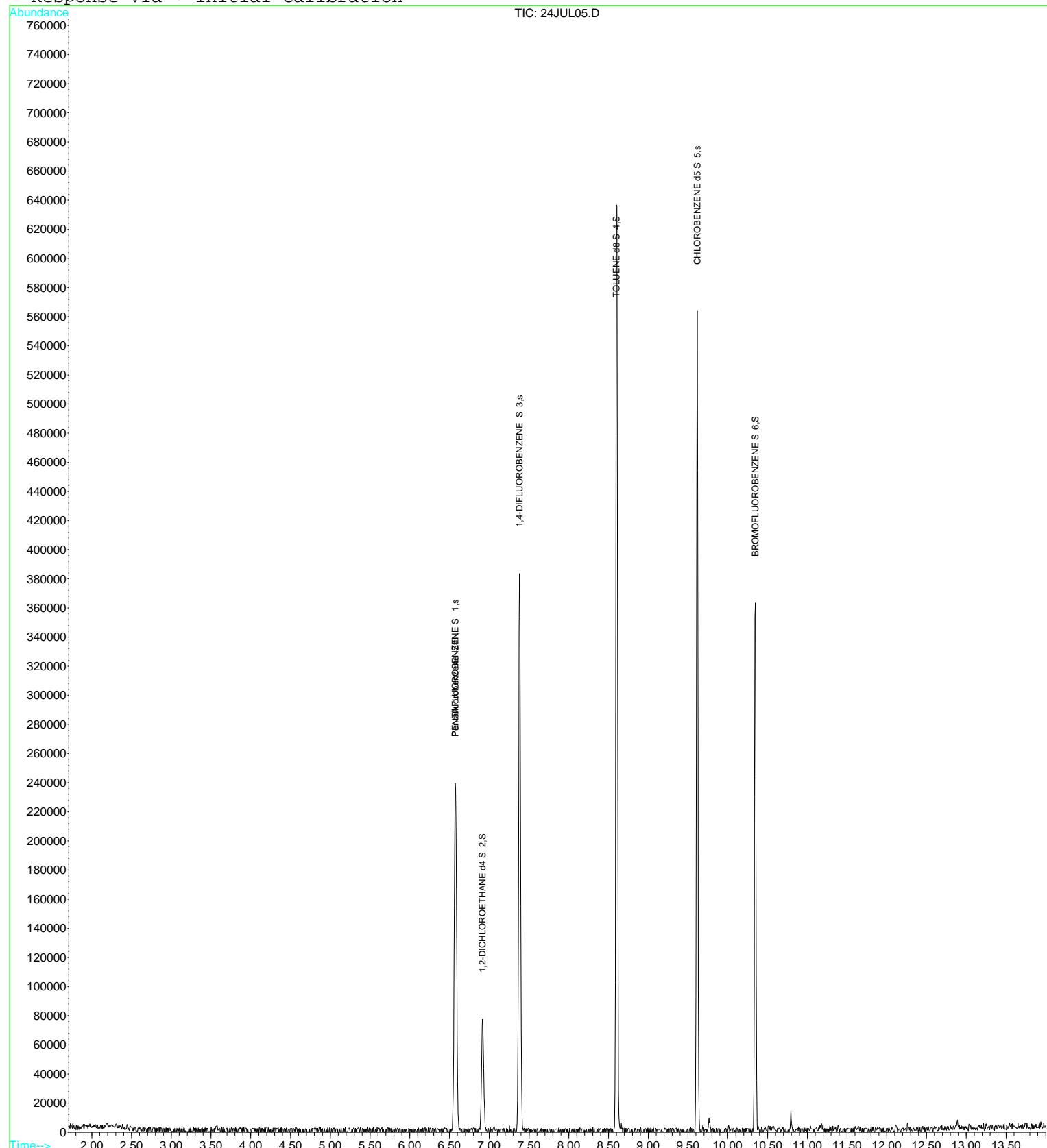
24JUL05.D TPPH5.M Mon Jul 24 09:45:16 2017

Page 1

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL05.D Vial: 5
 Acq On : 24 Jul 2017 5:49 am Operator: MGC
 Sample : 1712906-CCB1 Inst : MS-V5
 Misc : 1 CCB1;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 9:45 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\18-0046\TPPH5.M (RTE Integrator)
 Title : EPA Method TPPH Gasoline
 Last Update : Tue Jul 18 07:29:07 2017
 Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL35.D Vial: 35
 Acq On : 24 Jul 2017 5:44 pm Operator: MGC
 Sample : 1712906-CCB2 Inst : MS-V5
 Misc : 1 CCB2;25ML Multipllr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 25 11:40 2017

Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)

Title : EPA Method 624/524.2/8260

Last Update : Thu Jul 20 11:28:22 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	192938	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	290446	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	76046	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	50581	8.98	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	89.80%
31) Toluene d8 SMC#2	8.61	98	351938	9.81	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	98.10%
49) Bromofluorobenzene SMC#3	10.34	95	114361	10.07	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	100.70%

Target Compounds Qvalue

(#= qualifier out of range (m)= manual integration

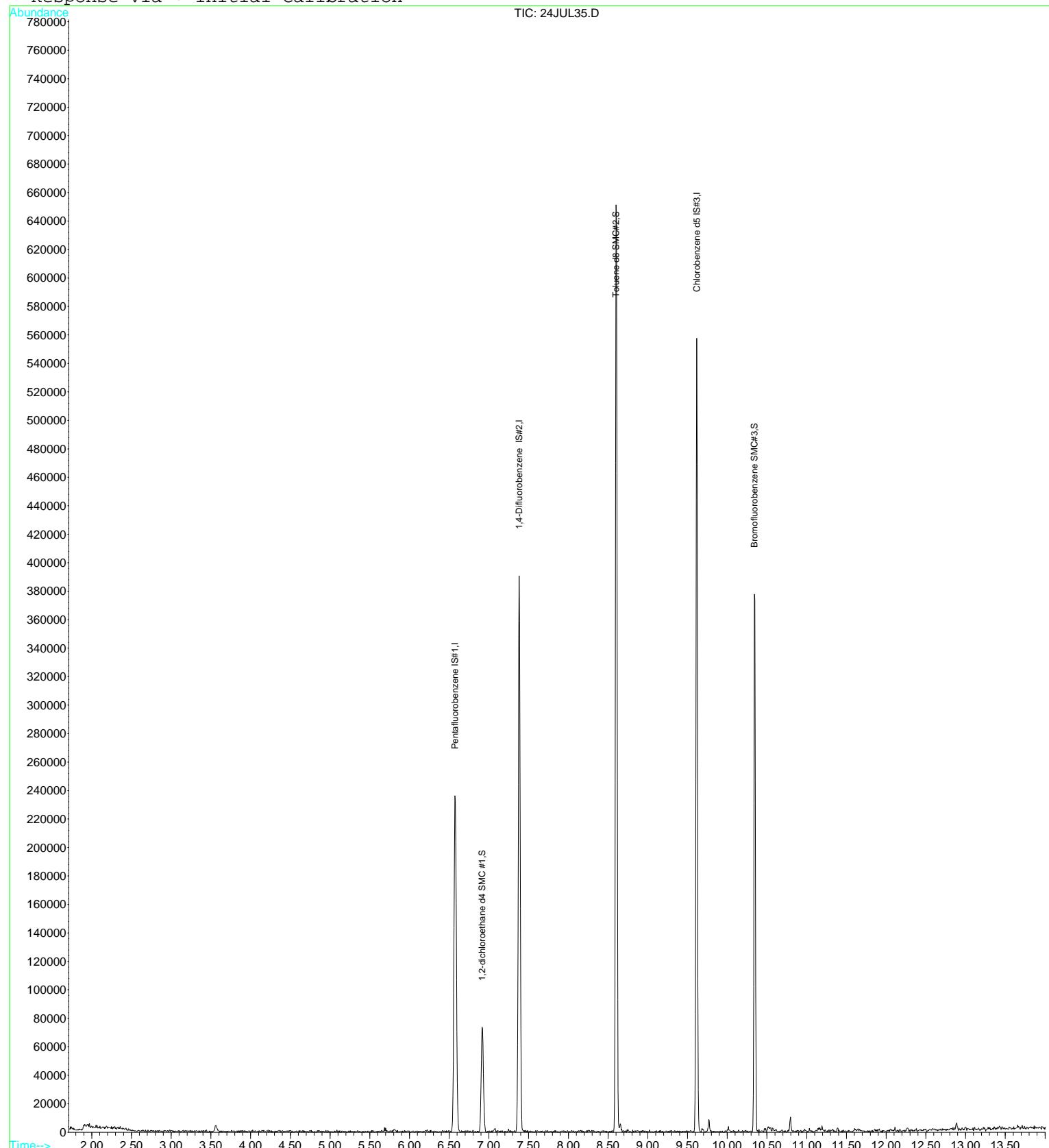
24JUL35.D 82605.M Sun Jul 30 10:17:05 2017

Page 1

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL35.D Vial: 35
Acq On : 24 Jul 2017 5:44 pm Operator: MGC
Sample : 1712906-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 11:40 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL35.D Vial: 35
Acq On : 24 Jul 2017 5:44 pm Operator: MGC
Sample : 1712906-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00

MS Integration Params: rteint.p
Quant Time: Jul 25 11:40 2017

Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

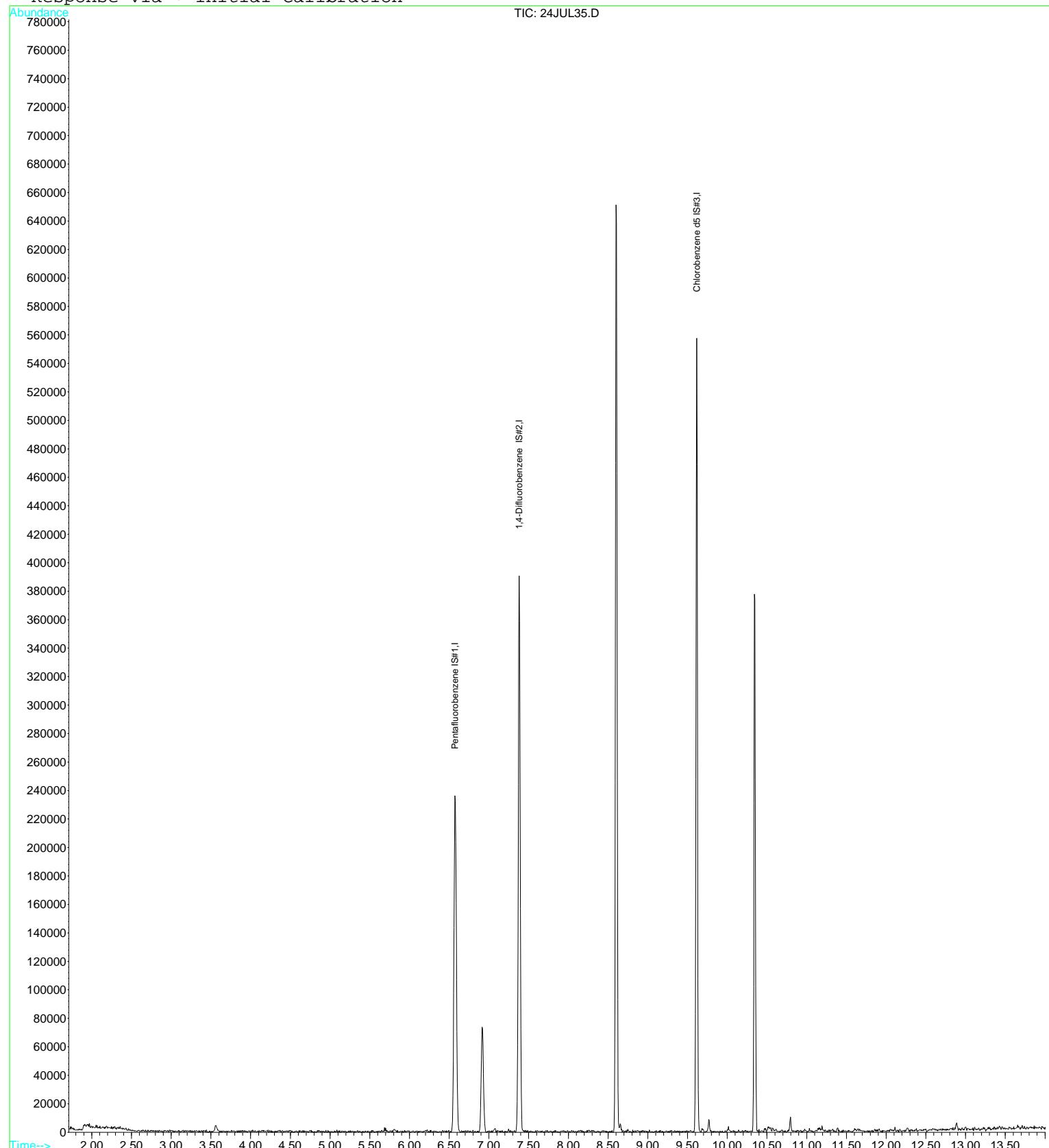
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Pentafluorobenzene IS#1	6.57	168	192938	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	290446	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	76046	10.00	ug/L	0.00

Target Compounds	Qvalue
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Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL35.D Vial: 35
Acq On : 24 Jul 2017 5:44 pm Operator: MGC
Sample : 1712906-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 11:40 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL35.D Vial: 35
 Acq On : 24 Jul 2017 5:44 pm Operator: MGC
 Sample : 1712906-CCB2 Inst : MS-V5
 Misc : 1 CCB2;25ML Multiplr: 1.00

MS Integration Params: rteint.p
 Quant Time: Jul 25 11:41 2017

Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)

Title : EPA Method TPPH Gasoline

Last Update : Tue Jul 18 07:29:07 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	192938	10.00	ug/L	0.00

System Monitoring Compounds

2) PENTAFLUOROBENZENE S 1	6.57	TIC	492735m	3.99	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.91	TIC	149120m	2.07	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	646092m	4.88	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	921473m	7.53	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.61	TIC	689305m	7.81	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	467219m	8.46	ug/L	0.00

Target Compounds	Qvalue
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(#) = qualifier out of range (m) = manual integration

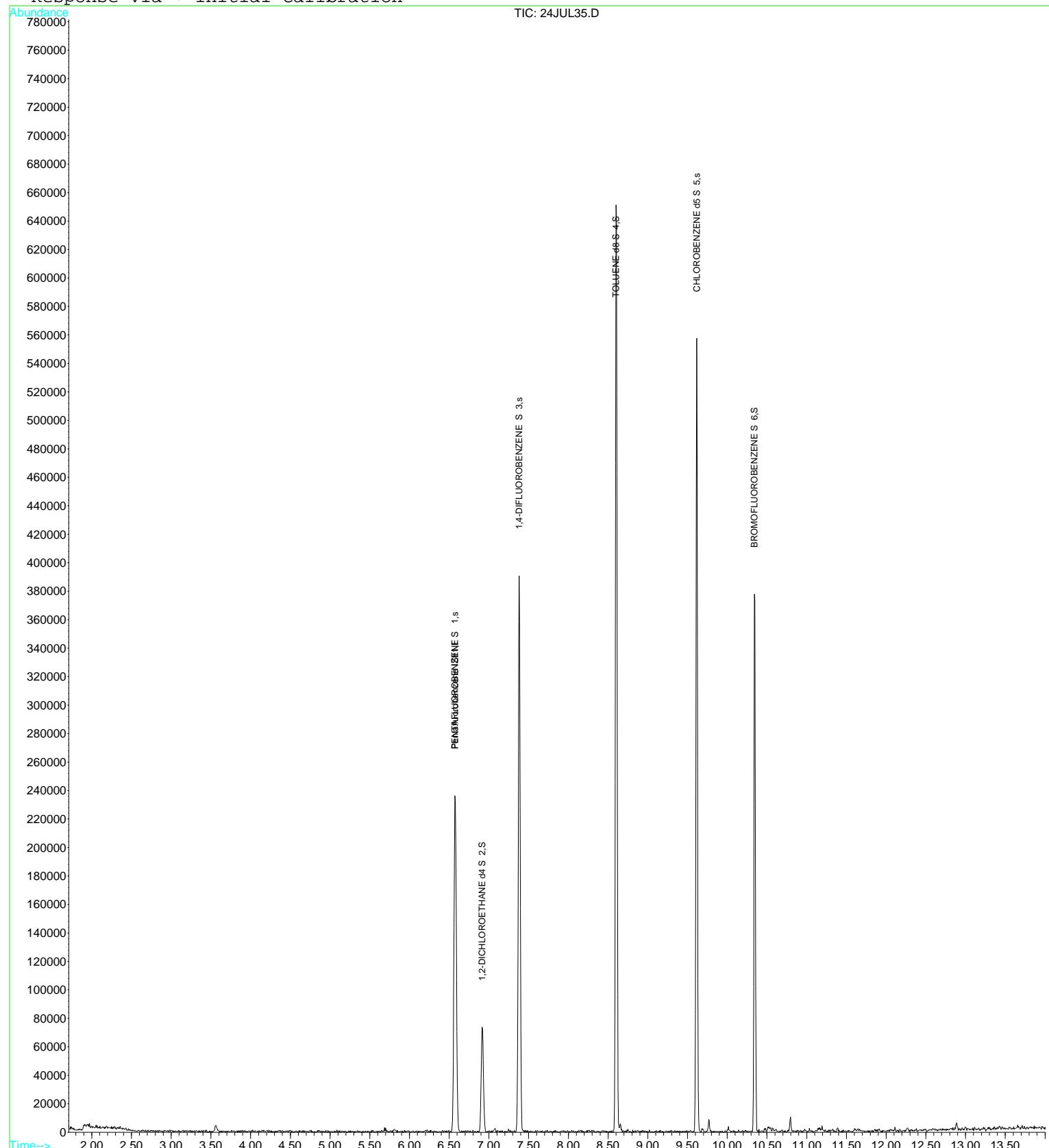
24JUL35.D TPPH5.M Fri Jul 28 07:37:56 2017

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Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL35.D Vial: 35
 Acq On : 24 Jul 2017 5:44 pm Operator: MGC
 Sample : 1712906-CCB2 Inst : MS-V5
 Misc : 1 CCB2;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 25 11:41 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\18-0046\TPPH5.M (RTE Integrator)
 Title : EPA Method TPPH Gasoline
 Last Update : Tue Jul 18 07:29:07 2017
 Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL65.D Vial: 65
 Acq On : 25 Jul 2017 5:15 am Operator: MGC
 Sample : 1712906-CCB3 Inst : MS-V5
 Misc : 1 CCB3;25ML Multipllr: 1.00

MS Integration Params: rteint.p
 Quant Time: Jul 25 12:39 2017

Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)

Title : EPA Method 624/524.2/8260

Last Update : Thu Jul 20 11:28:22 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	187880	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	284268	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	74687	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	50669	9.23	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	92.30%
31) Toluene d8 SMC#2	8.60	98	347630	9.90	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	99.00%
49) Bromofluorobenzene SMC#3	10.34	95	109422	9.81	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	98.10%

Target Compounds	Qvalue
------------------	--------

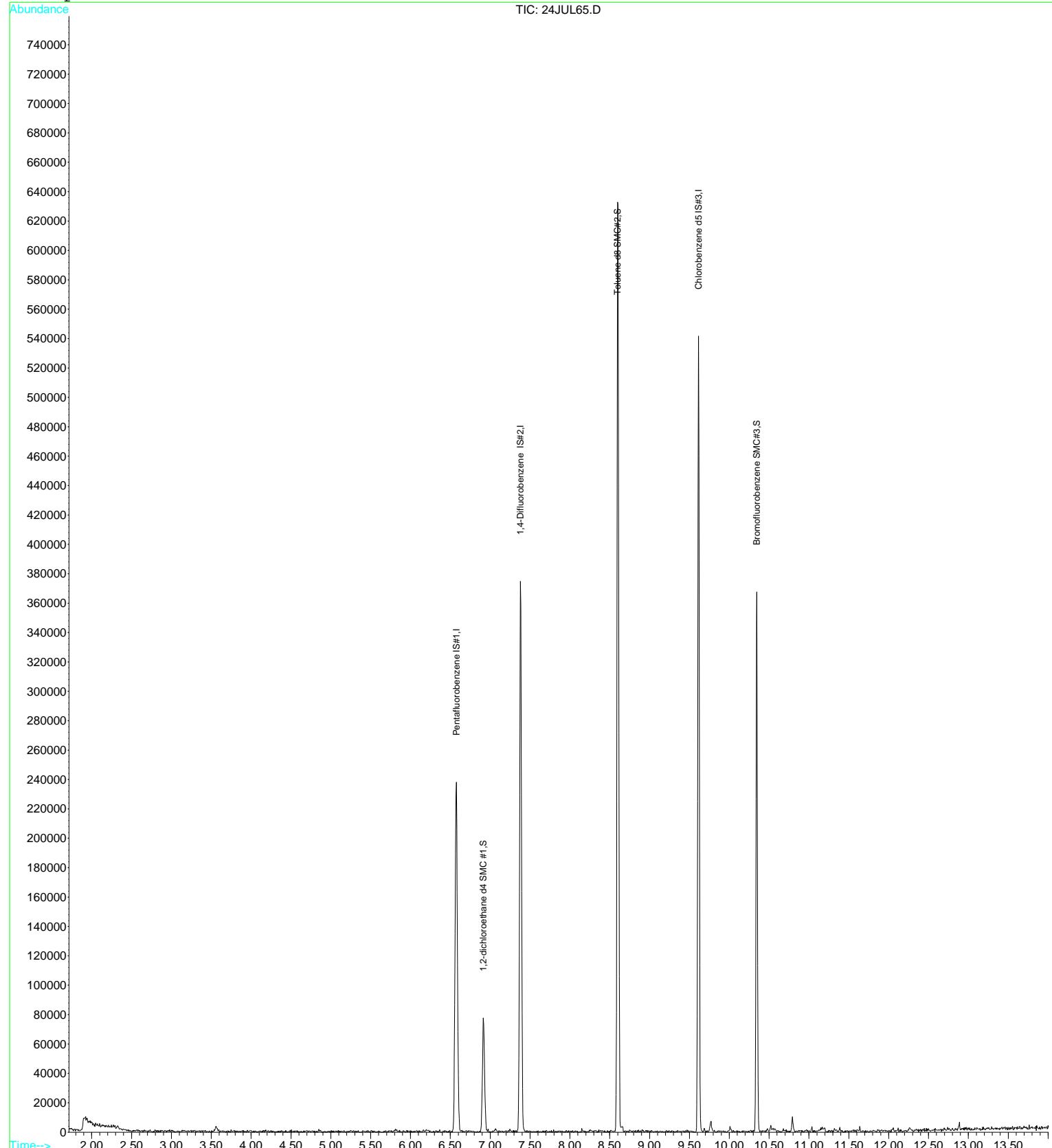
(#) = qualifier out of range (m) = manual integration

24JUL65.D 82605.M Sun Jul 30 10:17:13 2017

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL65.D Vial: 65
Acq On : 25 Jul 2017 5:15 am Operator: MGC
Sample : 1712906-CCB3 Inst : MS-V5
Misc : 1 CCB3;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:39 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL65.D Vial: 65
Acq On : 25 Jul 2017 5:15 am Operator: MGC
Sample : 1712906-CCB3 Inst : MS-V5
Misc : 1 CCB3;25ML Multiplr: 1.00

MS Integration Params: rteint.p
Quant Time: Jul 25 12:39 2017

Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)

Title : EPA Method 624/8260

Last Update : Fri Jul 21 04:19:15 2017

Response via : Initial Calibration

DataAcq Meth : 82605

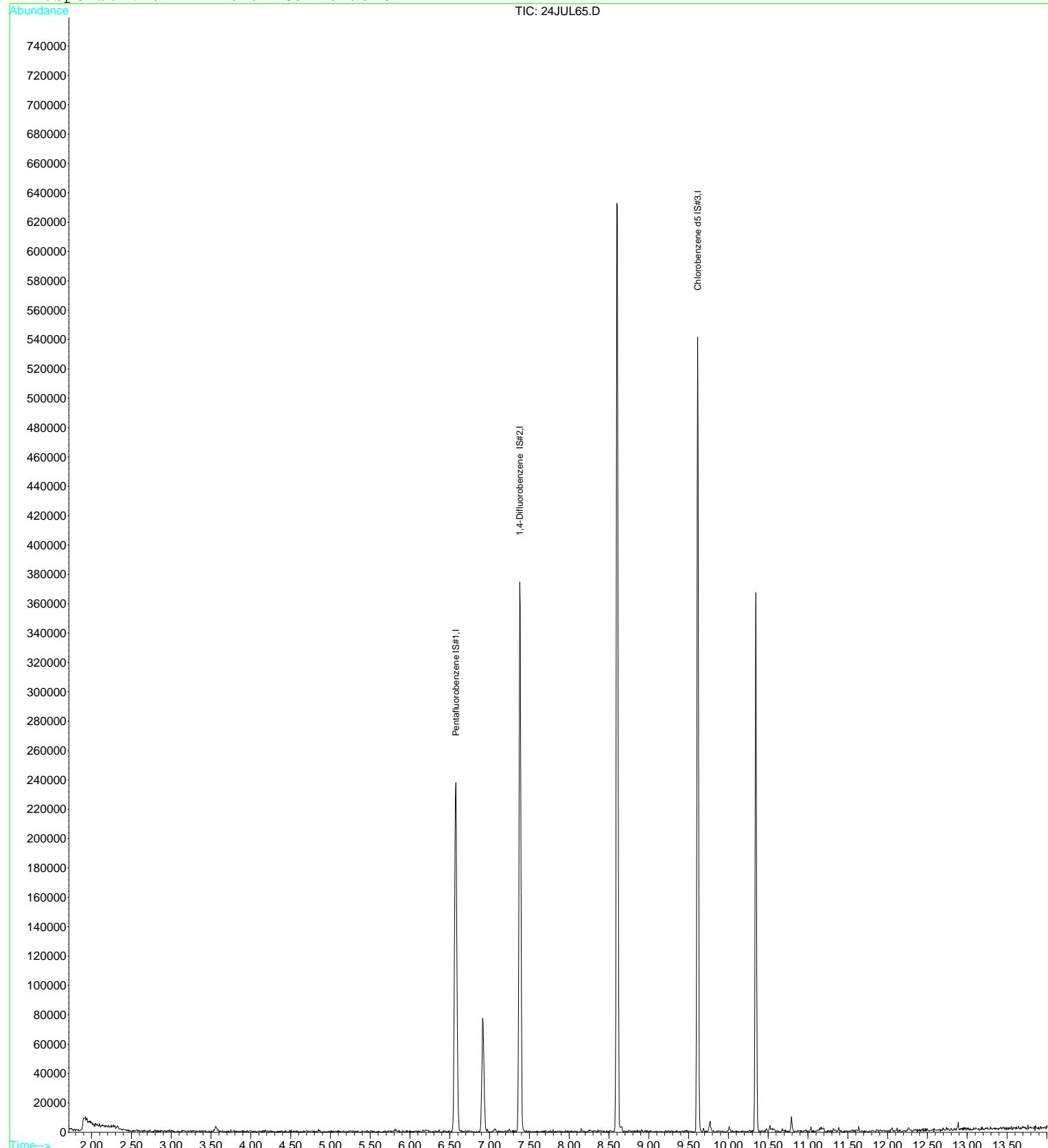
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Pentafluorobenzene IS#1	6.58	168	187880	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	284268	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	74687	10.00	ug/L	0.00

Target Compounds	Qvalue
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Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL65.D Vial: 65
Acq On : 25 Jul 2017 5:15 am Operator: MGC
Sample : 1712906-CCB3 Inst : MS-V5
Misc : 1 CCB3;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:39 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL65.D Vial: 65
 Acq On : 25 Jul 2017 5:15 am Operator: MGC
 Sample : 1712906-CCB3 Inst : MS-V5
 Misc : 1 CCB3;25ML Multipllr: 1.00

MS Integration Params: rteint.p
 Quant Time: Jul 25 12:40 2017

Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)

Title : EPA Method TPPH Gasoline

Last Update : Tue Jul 18 07:29:07 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	187880	10.00	ug/L	0.00

System Monitoring Compounds

2) PENTAFLUOROBENZENE S 1	6.58	TIC	492121m	4.09	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.91	TIC	149783m	2.13	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	631977m	4.91	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	912483m	7.65	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.61	TIC	677770m	7.89	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.35	TIC	455949m	8.48	ug/L	0.00

Target Compounds	Qvalue
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(#) = qualifier out of range (m) = manual integration

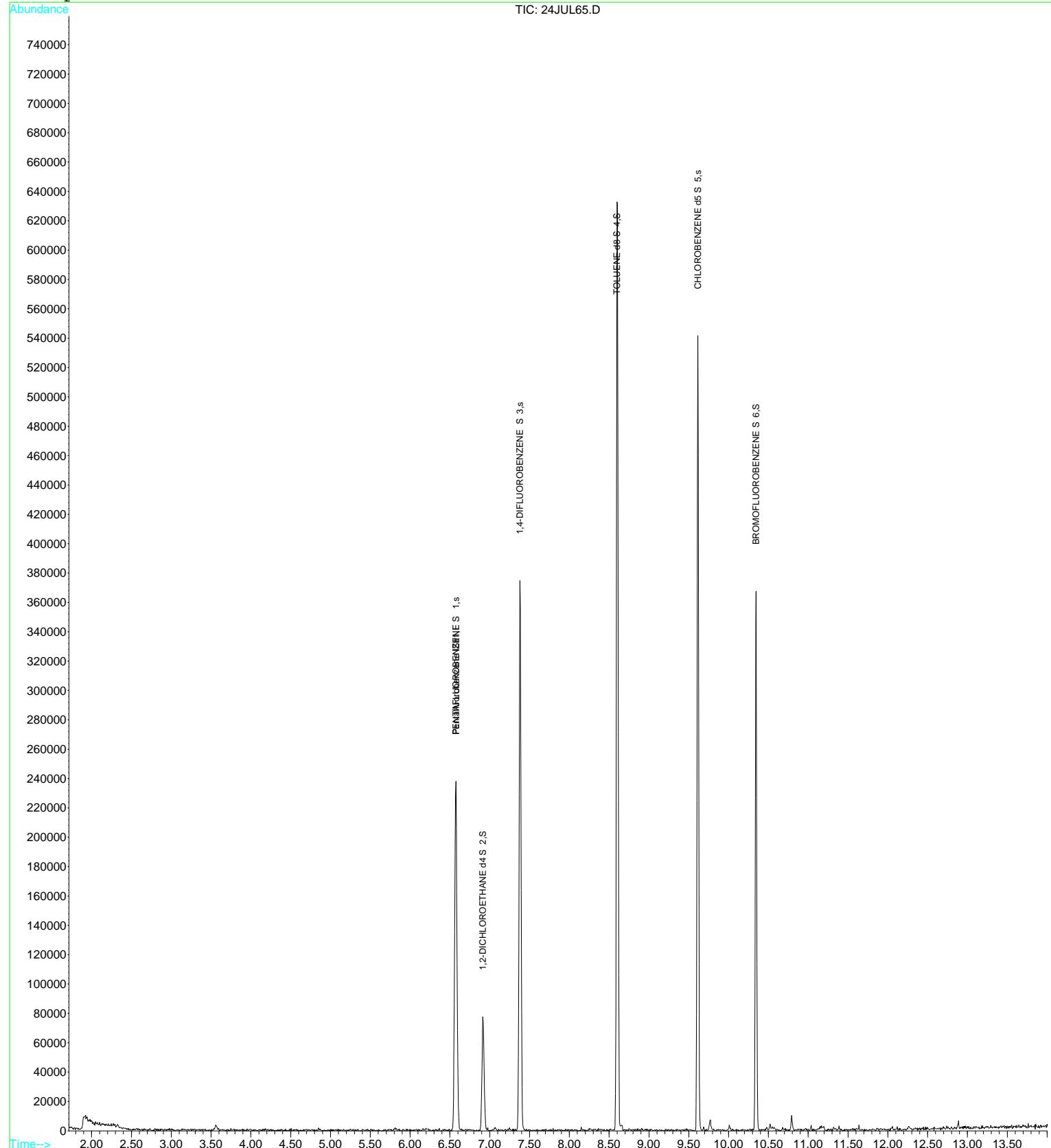
24JUL65.D TPPH5.M Tue Jul 25 12:40:32 2017

Page 1

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL65.D Vial: 65
 Acq On : 25 Jul 2017 5:15 am Operator: MGC
 Sample : 1712906-CCB3 Inst : MS-V5
 Misc : 1 CCB3;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 25 12:40 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\18-0046\TPPH5.M (RTE Integrator)
 Title : EPA Method TPPH Gasoline
 Last Update : Tue Jul 18 07:29:07 2017
 Response via : Initial Calibration





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Raw Data - Tune

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL02.D Vial: 2
 Acq On : 20 Jul 2017 8:09 am Operator: MGC
 Sample : 1712752-TUN1 Inst : MS-V5
 Misc : 1 VO-108-70267;50NG Multipllr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 20 14:23 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Wed Jul 12 08:31:09 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	52073	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	84177	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	24018	10.00	ug/L	0.00

System Monitoring Compounds

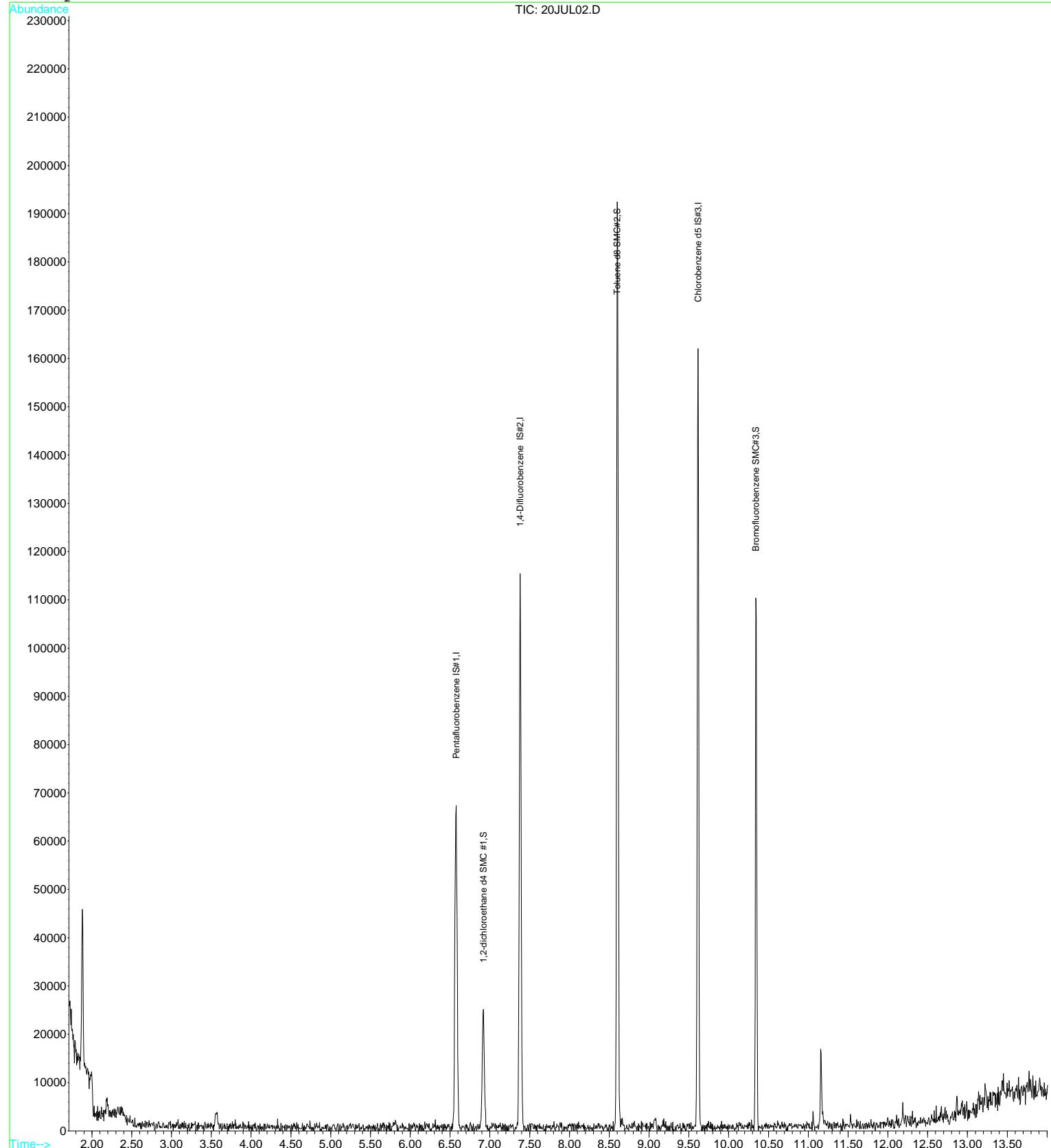
21) 1,2-dichloroethane d4 SMC	6.92	65	15808	10.14	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	101.40%
31) Toluene d8 SMC#2	8.60	98	102649	9.85	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	98.50%
49) Bromofluorobenzene SMC#3	10.34	95	29842	8.39	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	83.90%

Target Compounds	Qvalue
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Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL02.D Vial: 2
Acq On : 20 Jul 2017 8:09 am Operator: MGC
Sample : 1712752-TUN1 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 14:23 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL01.D Vial: 1
 Acq On : 24 Jul 2017 4:17 am Operator: MGC
 Sample : 1712906-TUN1 Inst : MS-V5
 Misc : 1 VO-108-70267;50NG Multipllr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 4:32 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	61427	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	97683	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	23504	10.00	ug/L	0.00

System Monitoring Compounds

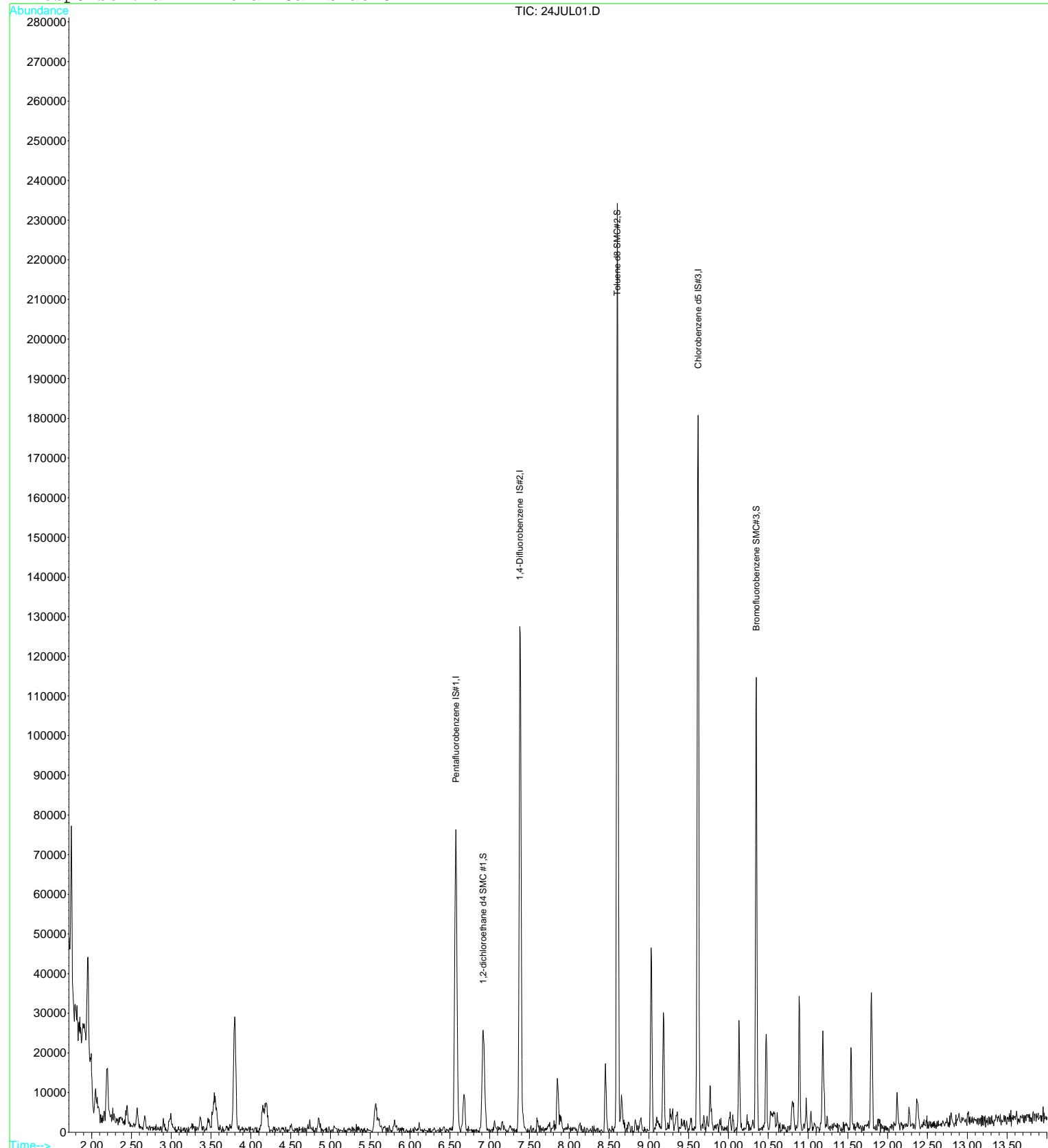
21) 1,2-dichloroethane d4 SMC	6.92	65	16189	9.02	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	90.20%
31) Toluene d8 SMC#2	8.60	98	119827	9.93	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	99.30%
49) Bromofluorobenzene SMC#3	10.35	95	34469	9.82	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	98.20%

Target Compounds	Qvalue
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Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL01.D Vial: 1
Acq On : 24 Jul 2017 4:17 am Operator: MGC
Sample : 1712906-TUN1 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 4:32 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL31.D Vial: 31
 Acq On : 24 Jul 2017 4:12 pm Operator: MGC
 Sample : 1712906-TUN2 Inst : MS-V5
 Misc : 1 VO-108-70267;50NG Multipllr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 25 9:23 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	47373	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	85427	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	23149	10.00	ug/L	0.00

System Monitoring Compounds

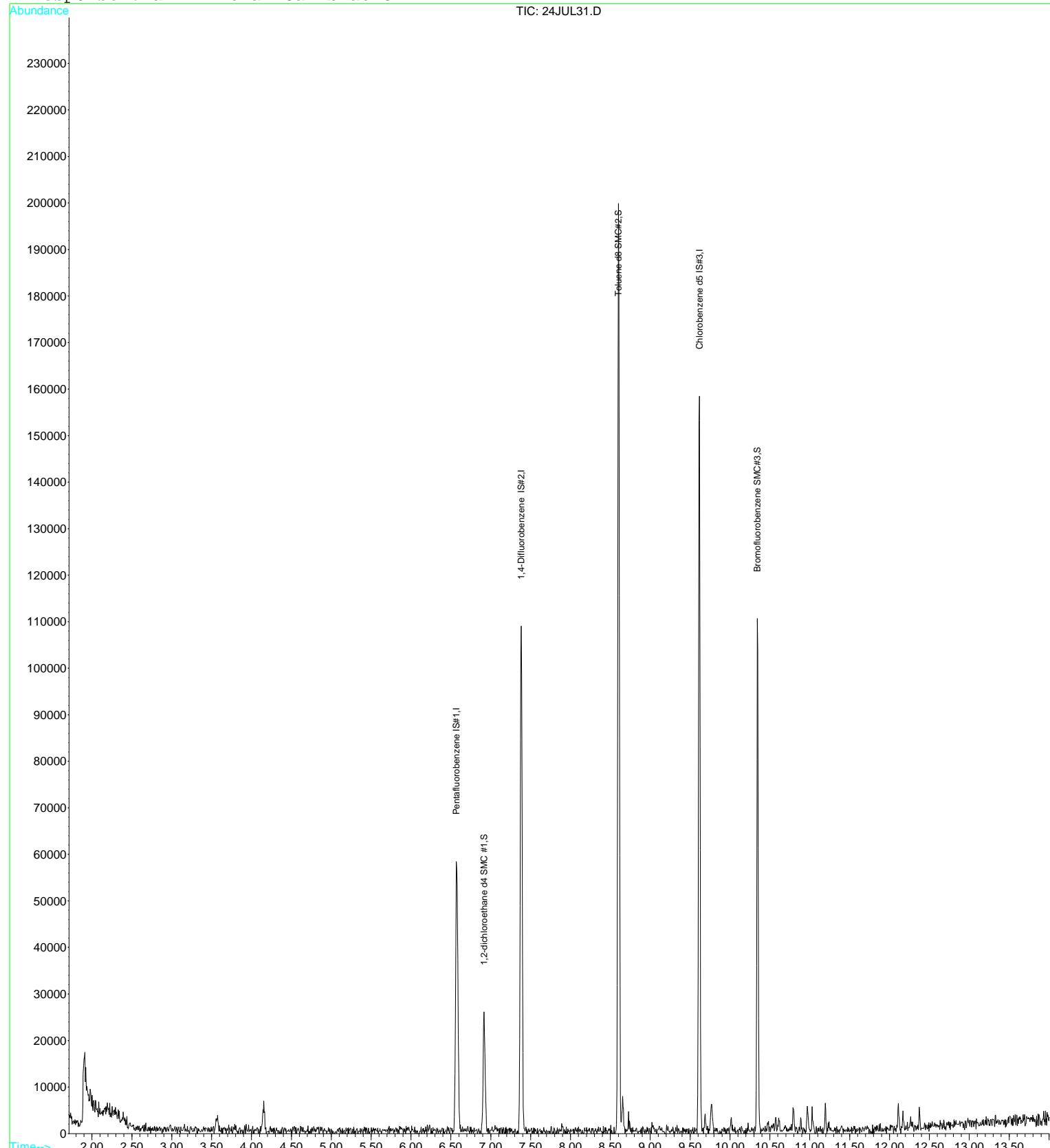
21) 1,2-dichloroethane d4 SMC	6.92	65	15919	11.51	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	115.10%
31) Toluene d8 SMC#2	8.60	98	105387	9.99	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	99.90%
49) Bromofluorobenzene SMC#3	10.34	95	33301	9.63	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	96.30%

Target Compounds	Qvalue
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Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL31.D Vial: 31
Acq On : 24 Jul 2017 4:12 pm Operator: MGC
Sample : 1712906-TUN2 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:23 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL61.D Vial: 61
 Acq On : 25 Jul 2017 3:43 am Operator: MGC
 Sample : 1712906-TUN3 Inst : MS-V5
 Misc : 1 VO-108-70267;50NG Multipllr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 25 12:36 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	35839	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	66631	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	18264	10.00	ug/L	0.00

System Monitoring Compounds

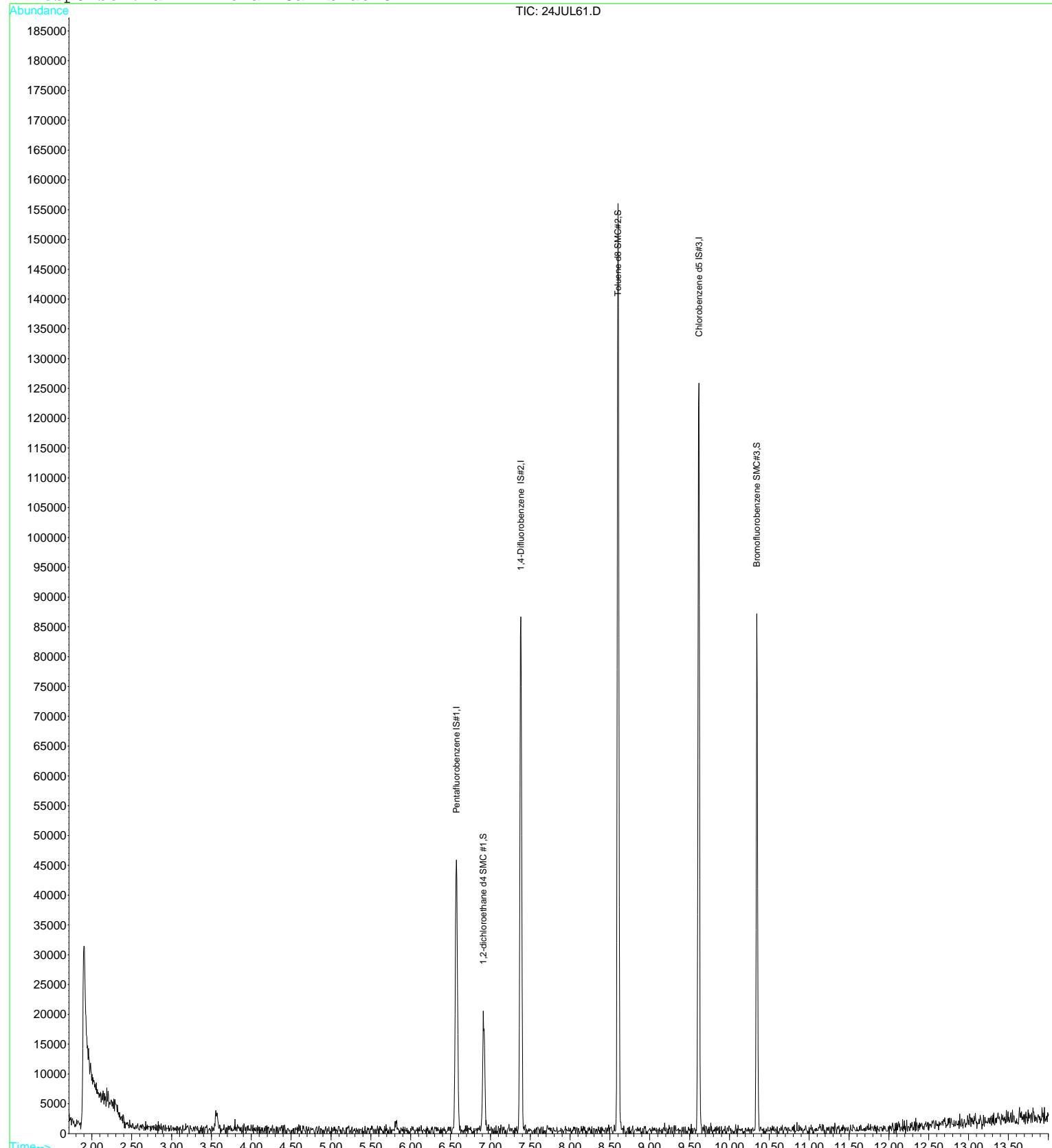
21) 1,2-dichloroethane d4 SMC	6.91	65	14369	13.73	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	137.30%#
31) Toluene d8 SMC#2	8.60	98	80883	9.83	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	98.30%
49) Bromofluorobenzene SMC#3	10.34	95	24829	9.10	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	91.00%

Target Compounds	Qvalue
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Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL61.D Vial: 61
Acq On : 25 Jul 2017 3:43 am Operator: MGC
Sample : 1712906-TUN3 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:36 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration





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Raw Data - Method Blank

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL06.D Vial: 6
 Acq On : 24 Jul 2017 6:12 am Operator: MGC
 Sample : B[G1819-BLK1] Inst : MS-V5
 Misc : 1 PB1;VRL-15-5710;25ML Multipllr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 11:23 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	194279	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	297409	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	79322	10.00	ug/L	0.00

System Monitoring Compounds

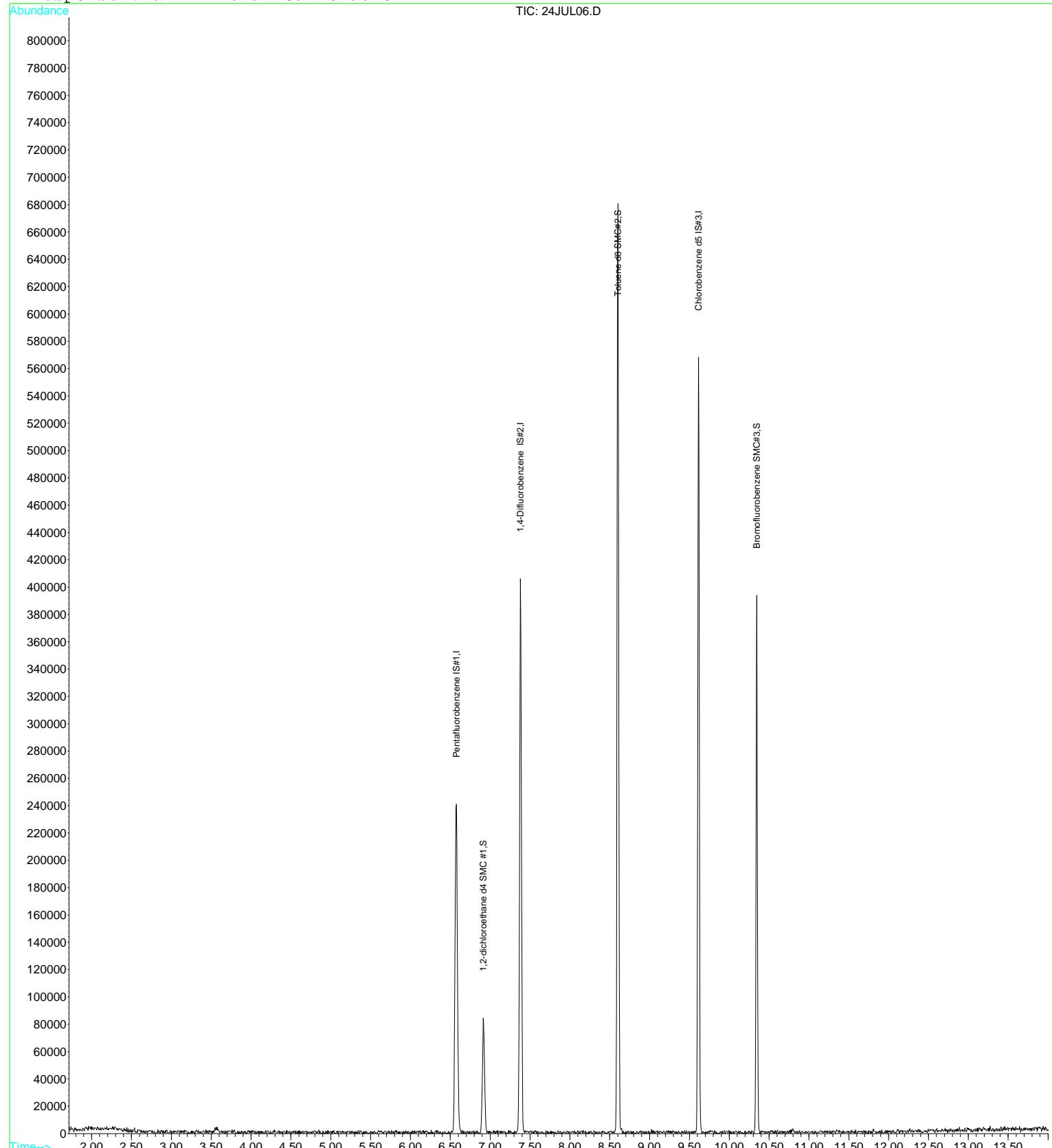
21) 1,2-dichloroethane d4 SMC	6.91	65	54856	9.67	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	96.70%
31) Toluene d8 SMC#2	8.60	98	366471	9.98	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	99.80%
49) Bromofluorobenzene SMC#3	10.35	95	117589	9.93	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	99.30%

Target Compounds	Qvalue
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Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL06.D Vial: 6
Acq On : 24 Jul 2017 6:12 am Operator: MGC
Sample : B[G1819-BLK1] Inst : MS-V5
Misc : 1 PB1;VRL-15-5710:25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 11:23 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL06.D Vial: 6
Acq On : 24 Jul 2017 6:12 am Operator: MGC
Sample : B[G1819-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-15-5710;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 11:23 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

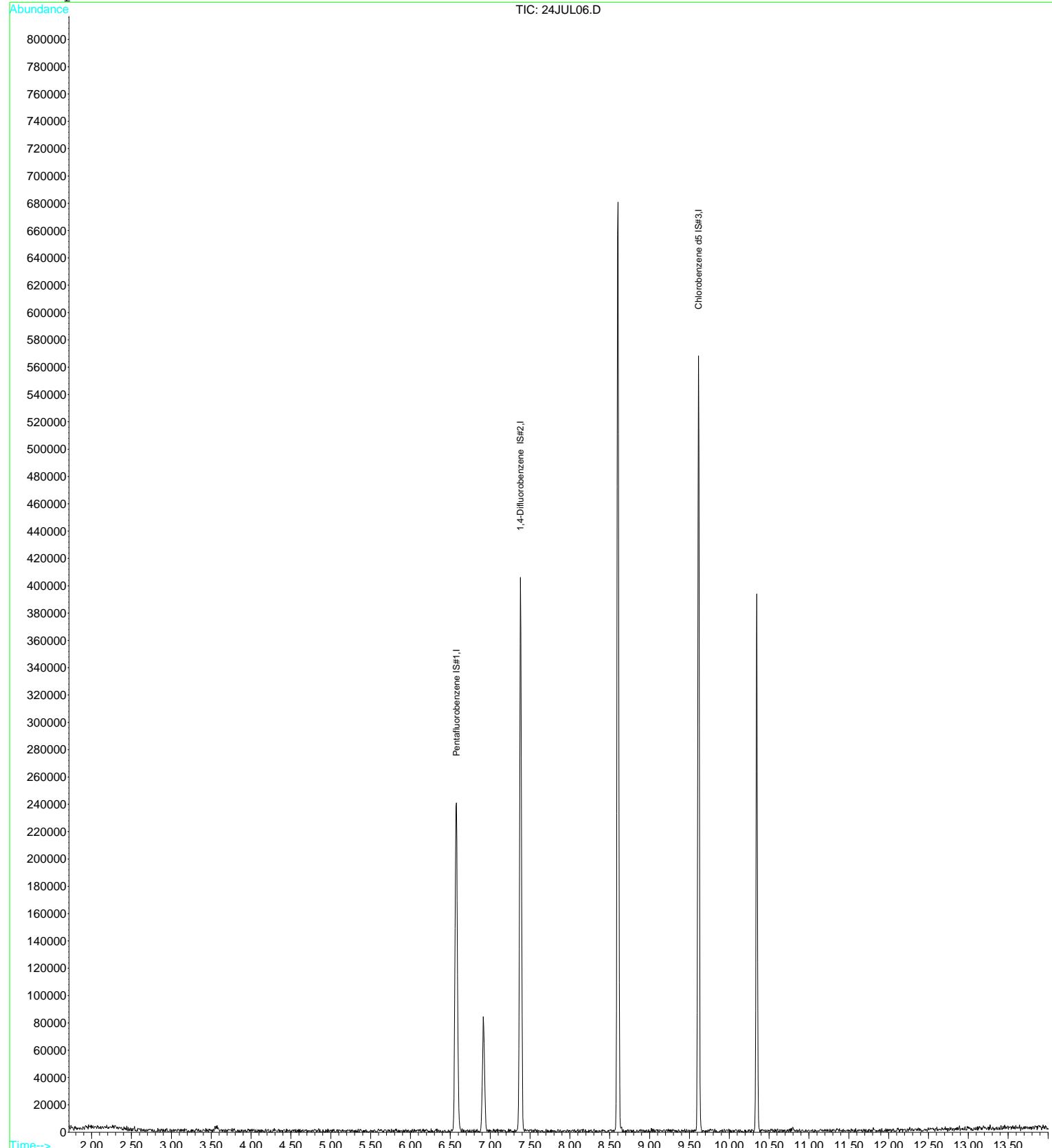
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Pentafluorobenzene IS#1	6.58	168	194279	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	297409	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	79322	10.00	ug/L	0.00

Target Compounds	Qvalue
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Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL06.D Vial: 6
Acq On : 24 Jul 2017 6:12 am Operator: MGC
Sample : B[G1819-BLK1] Inst : MS-V5
Misc : 1 PB1;VRL-15-5710;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 11:23 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL06.D Vial: 6
 Acq On : 24 Jul 2017 6:12 am Operator: MGC
 Sample : B[G1819-BLK1] Inst : MS-V5
 Misc : 1 PB1;VRL-15-5710;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 11:24 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
 Title : EPA Method TPPH Gasoline
 Last Update : Tue Jul 18 07:29:07 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	194279	10.00	ug/L	0.00

System Monitoring Compounds

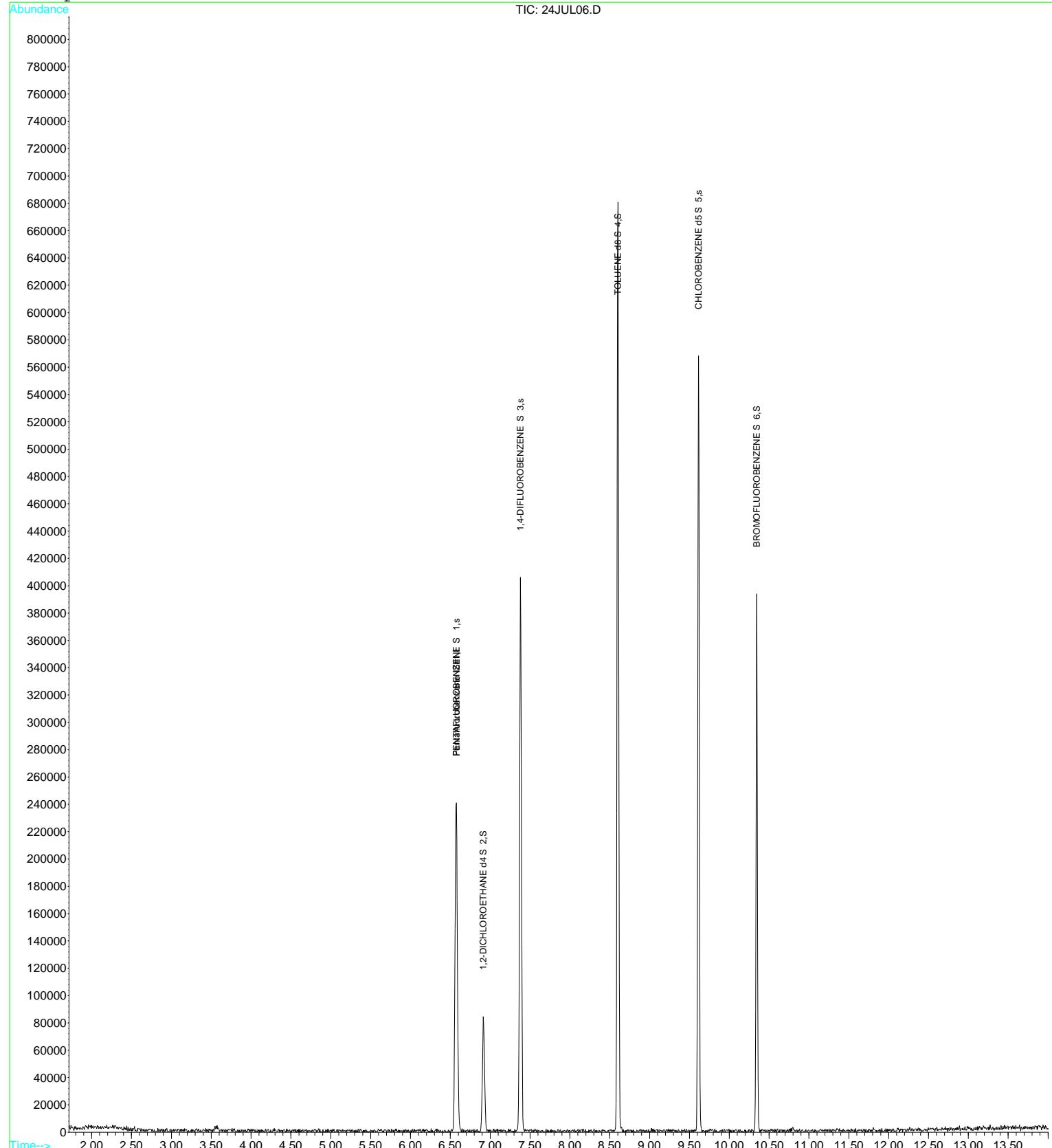
2) PENTAFLUOROBENZENE S 1	6.58	TIC	514499m	4.14	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.91	TIC	162488m	2.24	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	676929m	5.08	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	959441m	7.78	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.61	TIC	727601m	8.19	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.35	TIC	482155m	8.67	ug/L	0.00

Target Compounds	Qvalue
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Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL06.D Vial: 6
Acq On : 24 Jul 2017 6:12 am Operator: MGC
Sample : B[G1819-BLK1] Inst : MS-V5
Misc : 1 PB1;VRL-15-5710:25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 11:24 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\18-0046\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration





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Raw Data - Matrix Spike

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL09.D Vial: 9
 Acq On : 24 Jul 2017 7:21 am Operator: MGC
 Sample : B[G1819-MS1] Inst : MS-V5
 Misc : 5 VO-109-70506;70519;70520;70521;25ML/50 Multipllr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 24 7:35 2017

Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)

Title : EPA Method 624/524.2/8260

Last Update : Thu Jul 20 11:28:22 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	197522	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	296235	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	78902	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	52624	9.12	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	91.20%
31) Toluene d8 SMC#2	8.60	98	361898	9.89	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	98.90%
49) Bromofluorobenzene SMC#3	10.35	95	117116	9.94	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	99.40%

Target Compounds

2) Dichlorodifluoromethane	1.76	85	255922	26.04	ug/L	95
3) Chloromethane	1.94	50	372548	20.05	ug/L	100
4) Vinyl chloride	2.07	62	801197	54.13	ug/L	# 67
5) Bromomethane	2.43	94	186823	23.27	ug/L	# 93
6) Chloroethane	2.56	64	250264	24.62	ug/L	98
7) Trichlorofluoromethane	2.87	101	310991	25.56	ug/L	99
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	233074	27.91	ug/L	# 83
9) 1,1-Dichloroethene	3.51	61	432244	27.12	ug/L	96
10) Methylene chloride	4.15	84	209721	24.61	ug/L	94
11) MTBE	4.48	73	282967	23.72	ug/L	# 74
12) T-1,2-dichloroethene	4.50	96	265286	26.81	ug/L	90
13) 1,1-Dichloroethane	5.05	63	530288	25.09	ug/L	100
14) 2,2-Dichloropropane	5.83	77	320965	26.98	ug/L	# 16
15) Cis-1,2-dichloroethene	5.82	96	538204	52.18	ug/L	89
16) Bromochloromethane	6.18	128	79983	24.33	ug/L	# 89
17) Chloroform	6.32	83	370314	24.76	ug/L	95
18) 1,1,1-Trichloroethane	6.53	97	333286	25.75	ug/L	# 74
19) 1,1-Dichloropropene	6.72	75	342985	25.37	ug/L	95
20) Carbon tetrachloride	6.71	119	235979	26.59	ug/L	92
22) 1,2-Dichloroethane	7.00	62	176806	22.00	ug/L	# 85
23) Benzene	6.93	78	1097539	27.14	ug/L	# 6
25) Trichloroethene	7.60	130	266597	26.21	ug/L	89
26) 1,2-Dichloropropane	7.83	63	281266	25.03	ug/L	97
27) Dibromomethane	7.90	93	72176	25.44	ug/L	97
28) Bromodichloromethane	8.06	83	211293	24.78	ug/L	91
29) 2-ceve	8.28	63	58827	20.27	ug/L	# 74
30) Cis-1,3-dichloropropene	8.40	75	281914	26.48	ug/L	97
32) Toluene	8.65	92	1151318	44.86	ug/L	91
33) Trans-1,3-dichloropropene	8.82	75	182710	26.29	ug/L	# 84
34) 1,1,2-Trichloroethane	8.97	97	112560	24.41	ug/L	85
35) Tetrachloroethene (PCE)	9.03	166	265838	27.27	ug/L	95
36) 1,3-Dichloropropane	9.08	76	175801	23.47	ug/L	95
37) Dibromochloromethane	9.23	129	116478	26.14	ug/L	# 94
38) 1,2-Dibromoethane	9.32	107	97493	25.44	ug/L	99
40) Chlorobenzene	9.63	112	619484	23.68	ug/L	90
41) 1,1,1,2-Tetrachloroethane	9.69	131	170098	26.42	ug/L	97
42) Ethylbenzene	9.69	106	481690	31.33	ug/L	80
43) P+m-Xylene	9.77	106	1170788	62.26	ug/L	97
44) O-Xylene	10.01	106	555628	31.97	ug/L	92
45) Styrene	10.02	104	704396	26.59	ug/L	92
46) Bromoform	10.15	173	52994	27.36	ug/L	# 100
47) Isopropylbenzene	10.23	105	1244863	27.67	ug/L	98
48) 1,1,2,2-Tetrachloroethane	10.41	83	104235	24.30	ug/L	97
50) 1,2,3-Trichloropropane	10.45	110	22984	25.20	ug/L	# 17
51) n-propylbenzene	10.47	91	1518117	25.99	ug/L	94

(#= qualifier out of range (m) = manual integration

24JUL09.D 82605.M Mon Jul 24 11:31:45 2017

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL09.D Vial: 9
 Acq On : 24 Jul 2017 7:21 am Operator: MGC
 Sample : B[G1819-MS1] Inst : MS-V5
 Misc : 5 VO-109-70506;70519;70520;70521;25ML/50 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 7:35 2017 Quant Results File: 82605.RES

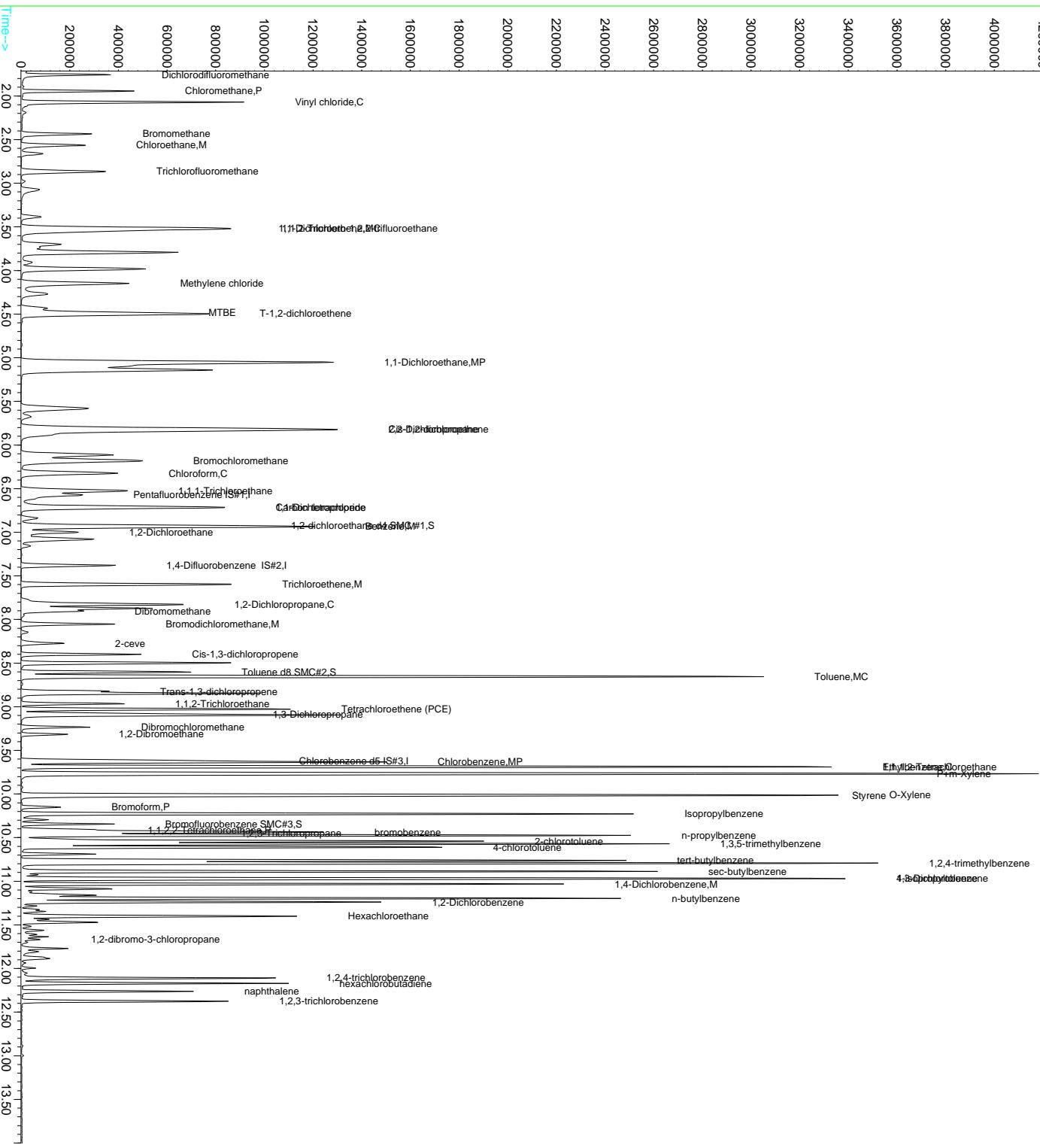
Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) bromobenzene	10.44	156	233513	25.34	ug/L	84
53) 1,3,5-trimethylbenzene	10.57	105	1121306	30.12	ug/L	94
54) 2-chlorotoluene	10.54	91	907509	24.59	ug/L	98
55) 4-chlorotoluene	10.61	91	804040	24.13	ug/L	98
56) tert-butylbenzene	10.76	119	953454	25.93	ug/L	95
57) 1,2,4-trimethylbenzene	10.79	105	1310668	35.55	ug/L	92
58) sec-butylbenzene	10.89	105	1388338	27.87	ug/L	99
59) 4-isopropyltoluene	10.97	119	1133224	27.89	ug/L	97
60) 1,3-Dichlorobenzene	10.98	146	478130	24.24	ug/L	94
61) 1,4-Dichlorobenzene	11.03	146	470579	24.41	ug/L	95
62) n-butylbenzene	11.20	91	1042440	27.53	ug/L	97
63) 1,2-Dichlorobenzene	11.24	146	463627	27.25	ug/L	97
64) Hexachloroethane	11.40	117	153519	22.57	ug/L #	60
65) 1,2-dibromo-3-chloropropan	11.67	75	13849	23.95	ug/L	98
66) 1,2,4-trichlorobenzene	12.11	180	264035	26.79	ug/L	100
67) hexachlorobutadiene	12.17	225	169712	24.88	ug/L #	85
68) naphthalene	12.26	128	419115	33.85	ug/L	100
69) 1,2,3-trichlorobenzene	12.37	180	209680	25.35	ug/L #	89

(#) = qualifier out of range (m) = manual integration
 24JUL09.D 82605.M Mon Jul 24 11:31:45 2017

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL09.D Vial: 9
 Acq On : 24 Jul 2017 7:21 am Operator: MGC
 Sample : B\G1819-MS1 Inst: MS-V5
 Misc : 5 VO-109-70506;70519;70520;70521;25ML/50 Multipl: 1.00
 MS Integration Params: rteint.P
 Quant Time: Jul 24 7:35 2017 Quant Results File: 82605.RES
 Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL09.D Vial: 9
 Acq On : 24 Jul 2017 7:21 am Operator: MGC
 Sample : B[G1819-MS1] Inst : MS-V5
 Misc : 5 VO-109-70506;70519;70520;70521;25ML/50 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 24 11:32 2017

Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)

Title : EPA Method 624/8260

Last Update : Fri Jul 21 04:19:15 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	197522	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	296235	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	78902	10.00	ug/L	0.00

Target Compounds

					Qvalue
2) ethanol	3.08	45	131327	3687.31	ug/L # 70
6) isopropyl alcohol	3.74	45	125185	762.52	ug/L # 70
7) Acrolein	3.38	56	94291	261.95	ug/L 94
8) acetone	3.56	43	232243	285.35	ug/L 97
9) tert-butyl alcohol (TBA)	4.27	59	171445	733.64	ug/L 100
10) acetonitrile	3.91	41	61097	157.62	ug/L 89
11) methyl acetate	3.97	43	5046	2.06	ug/L # 41
12) allyl chloride	3.98	41	636353	32.11	ug/L 94
13) iodomethane	3.70	142	236577	20.32	ug/L 97
14) acrylonitrile	4.43	53	108491	80.84	ug/L 96
15) carbon disulfide	3.79	76	1002073	33.46	ug/L 100
16) N-Hexane	4.86	57	2045	0.16	ug/L # 33
17) diisopropyl ether	5.10	87	117862	15.97	ug/L 77
18) Vinyl acetate	5.05	43	1726538	149.76	ug/L 96
19) chloroprene	5.14	53	638229	30.65	ug/L 88
20) tert-butyl ethyl ether	5.58	59	358020	14.82	ug/L 100
21) 2-butanone (MEK)	5.80	43	209054	144.66	ug/L 95
22) propionitrile	5.88	54	185634	382.63	ug/L # 89
23) Isobutyl alcohol	6.84	43	46080	411.67	ug/L # 28
24) methacrylonitrile	6.11	67	206265	155.96	ug/L 94
26) tetrahydrofuran	6.19	42	283447	292.25	ug/L 89
27) Cyclohexane	6.62	56	46346	1.79	ug/L # 76
28) tert-amyl methyl ether (TA	7.08	73	202177	15.21	ug/L 95
30) methyl methacrylate	7.87	69	175656	79.42	ug/L 99
31) Methylcyclohexane	7.80	55	52310	2.89	ug/L # 1
32) 1,4-dioxane	7.89	88	53155	1973.58	ug/L 90
33) Methyl isobutyl ketone(mib	8.50	43	503251	151.84	ug/L 98
34) ethyl methacrylate	8.84	69	416206	82.26	ug/L 97
35) 2-hexanone	9.10	43	659112	293.56	ug/L 95
38) cyclohexanone	10.29	55	40555	77.66	ug/L 100
39) t-1,4-dichloro-2-butene	10.43	75	189559	228.19	ug/L # 12
41) Pentachloroethane	10.80	167	69096	21.89	ug/L # 64
42) benzyl chloride	11.09	91	208513	38.76	ug/L 97

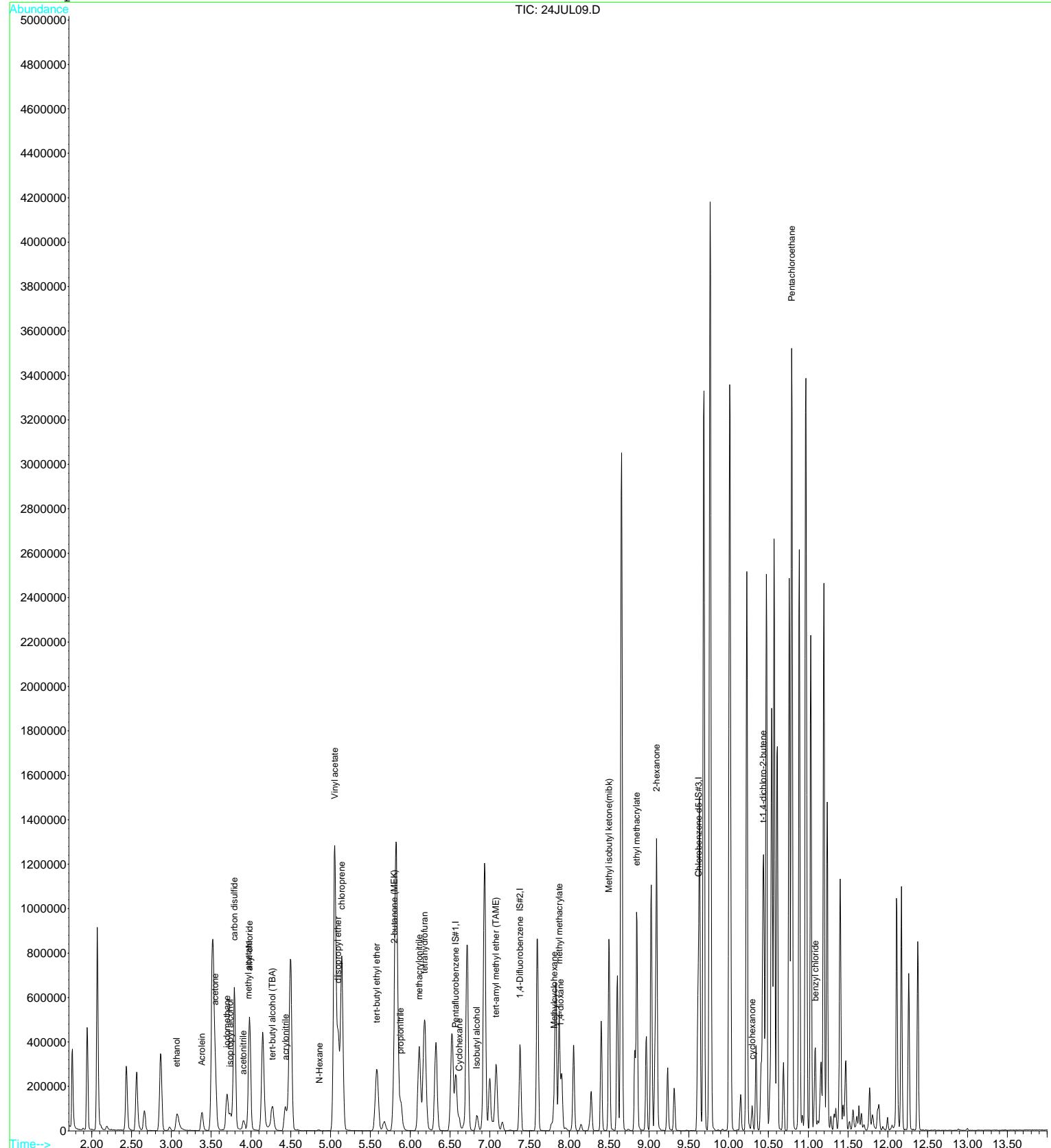
(#= qualifier out of range (m)= manual integration

24JUL09.D 82605X.M Mon Jul 24 11:32:28 2017

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL09.D Vial: 9
 Acq On : 24 Jul 2017 7:21 am Operator: MGC
 Sample : B[G1819-MS1 Inst : MS-V5
 Misc : 5 VO-109-70506;70519;70520;70521;25ML/50 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 11:32 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
 Title : EPA Method 624/8260
 Last Update : Fri Jul 21 04:19:15 2017
 Response via : Initial Calibration





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Raw Data - Matrix Spike Duplicate

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL10.D Vial: 10
 Acq On : 24 Jul 2017 7:44 am Operator: MGC
 Sample : B[G1819-MSD1 Inst : MS-V5
 Misc : 5 VO-109-70506;70519;70520;70521;25ML/50 Multipllr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 24 7:58 2017

Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)

Title : EPA Method 624/524.2/8260

Last Update : Thu Jul 20 11:28:22 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	202591	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	306542	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	78370	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	50679	8.56	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	85.60%
31) Toluene d8 SMC#2	8.60	98	374509	9.89	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	98.90%
49) Bromofluorobenzene SMC#3	10.34	95	115514	9.87	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	98.70%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.76	85	241686	23.97	ug/L
3) Chloromethane	1.95	50	353840	18.57	ug/L
4) Vinyl chloride	2.07	62	767051	50.52	ug/L #
5) Bromomethane	2.44	94	185311	22.50	ug/L
6) Chloroethane	2.57	64	240912	23.11	ug/L
7) Trichlorofluoromethane	2.87	101	296738	23.78	ug/L
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	225958	26.38	ug/L #
9) 1,1-Dichloroethene	3.51	61	412261	25.22	ug/L
10) Methylene chloride	4.15	84	212717	24.33	ug/L
11) MTBE	4.48	73	289482	23.66	ug/L #
12) T-1,2-dichloroethene	4.50	96	255642	25.19	ug/L
13) 1,1-Dichloroethane	5.05	63	518829	23.93	ug/L
14) 2,2-Dichloropropane	5.83	77	309319	25.35	ug/L #
15) Cis-1,2-dichloroethene	5.82	96	526219	49.74	ug/L
16) Bromochloromethane	6.18	128	80158	23.77	ug/L #
17) Chloroform	6.32	83	361597	23.57	ug/L
18) 1,1,1-Trichloroethane	6.53	97	320802	24.16	ug/L #
19) 1,1-Dichloropropene	6.72	75	329616	23.77	ug/L
20) Carbon tetrachloride	6.72	119	226952	24.93	ug/L
22) 1,2-Dichloroethane	7.00	62	179441	21.77	ug/L #
23) Benzene	6.94	78	1077130	25.96	ug/L #
25) Trichloroethene	7.60	130	264544	25.13	ug/L
26) 1,2-Dichloropropane	7.83	63	276936	23.81	ug/L
27) Dibromomethane	7.90	93	73621	25.08	ug/L
28) Bromodichloromethane	8.05	83	213989	24.25	ug/L
29) 2-ceve	8.27	63	9737	3.24	ug/L #
30) Cis-1,3-dichloropropene	8.40	75	277134	25.15	ug/L
32) Toluene	8.65	92	1122744	42.28	ug/L
33) Trans-1,3-dichloropropene	8.82	75	176314	24.52	ug/L #
34) 1,1,2-Trichloroethane	8.96	97	111005	23.27	ug/L
35) Tetrachloroethene (PCE)	9.03	166	258073	25.58	ug/L
36) 1,3-Dichloropropane	9.08	76	176504	22.77	ug/L
37) Dibromochloromethane	9.23	129	119858	25.99	ug/L #
38) 1,2-Dibromoethane	9.32	107	96635	24.37	ug/L
40) Chlorobenzene	9.64	112	615059	23.67	ug/L
41) 1,1,1,2-Tetrachloroethane	9.69	131	169886	26.56	ug/L
42) Ethylbenzene	9.69	106	473823	31.03	ug/L
43) P+m-Xylene	9.77	106	1137850	60.92	ug/L
44) O-Xylene	10.01	106	552322	32.00	ug/L
45) Styrene	10.02	104	706266	26.85	ug/L
46) Bromoform	10.15	173	54232	28.19	ug/L #
47) Isopropylbenzene	10.23	105	1206120	27.00	ug/L
48) 1,1,2,2-Tetrachloroethane	10.41	83	110952	26.04	ug/L
50) 1,2,3-Trichloropropane	10.45	110	23664	26.12	ug/L #
51) n-propylbenzene	10.48	91	1487670	25.64	ug/L

(#= qualifier out of range (m) = manual integration

24JUL10.D 82605.M Mon Jul 24 11:32:57 2017

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL10.D Vial: 10
 Acq On : 24 Jul 2017 7:44 am Operator: MGC
 Sample : B[G1819-MSD1] Inst : MS-V5
 Misc : 5 VO-109-70506;70519;70520;70521;25ML/50 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 7:58 2017 Quant Results File: 82605.RES

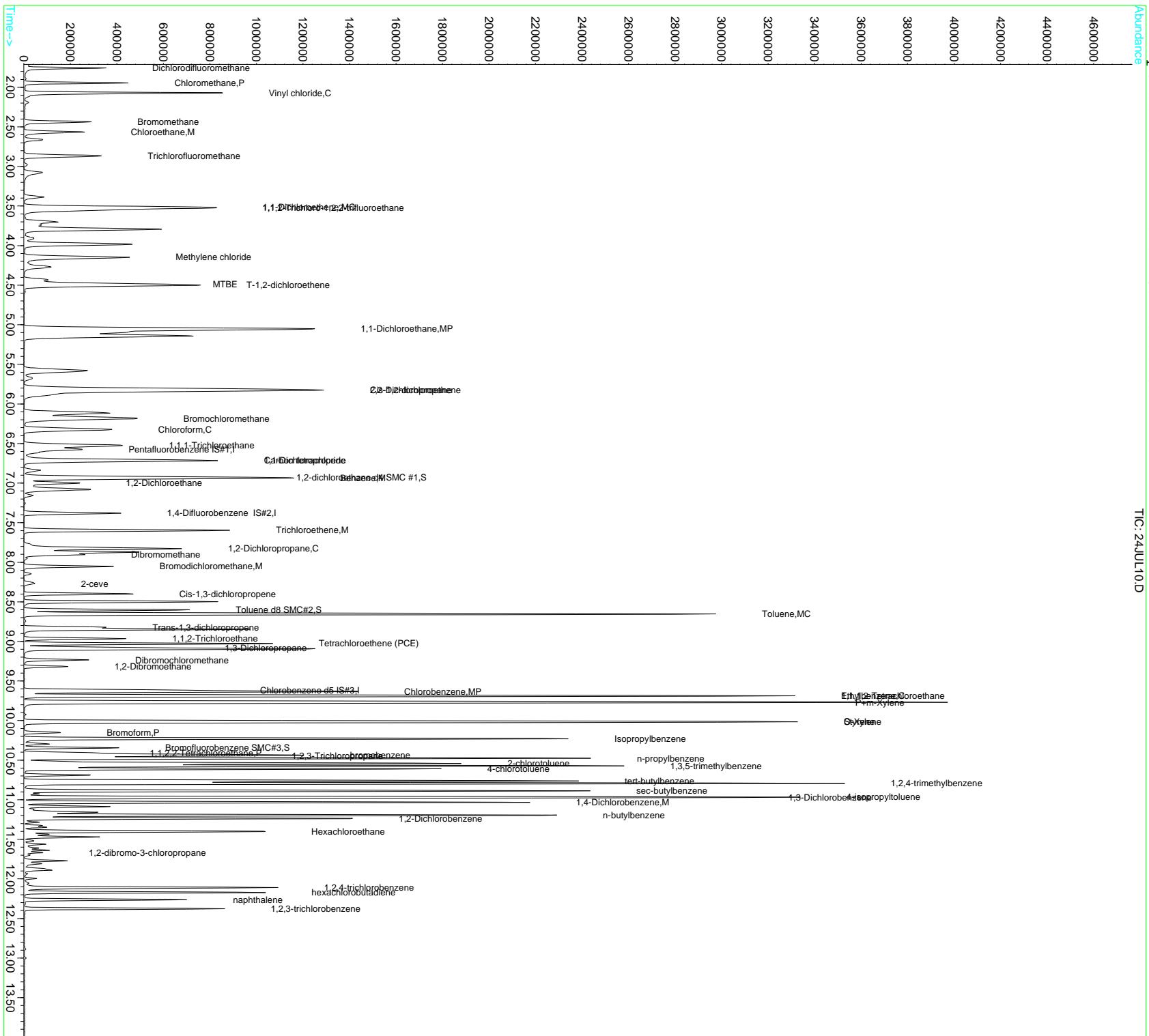
Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) bromobenzene	10.44	156	230844	25.22	ug/L	82
53) 1,3,5-trimethylbenzene	10.57	105	1104811	29.88	ug/L	94
54) 2-chlorotoluene	10.54	91	894108	24.39	ug/L	98
55) 4-chlorotoluene	10.61	91	794204	23.99	ug/L	97
56) tert-butylbenzene	10.76	119	936499	25.64	ug/L	96
57) 1,2,4-trimethylbenzene	10.79	105	1299720	35.49	ug/L	93
58) sec-butylbenzene	10.89	105	1352404	27.33	ug/L	98
59) 4-isopropyltoluene	10.97	119	1088324	26.97	ug/L	97
60) 1,3-Dichlorobenzene	10.98	146	477659	24.38	ug/L	93
61) 1,4-Dichlorobenzene	11.03	146	467799	24.43	ug/L	96
62) n-butylbenzene	11.19	91	993485	26.42	ug/L	97
63) 1,2-Dichlorobenzene	11.24	146	461182	27.29	ug/L	97
64) Hexachloroethane	11.40	117	153864	22.76	ug/L #	58
65) 1,2-dibromo-3-chloropropan	11.66	75	14436	25.13	ug/L	95
66) 1,2,4-trichlorobenzene	12.11	180	260563	26.62	ug/L	99
67) hexachlorobutadiene	12.17	225	166265	24.54	ug/L #	86
68) naphthalene	12.26	128	424098	34.49	ug/L	100
69) 1,2,3-trichlorobenzene	12.38	180	214162	26.07	ug/L #	91

(#) = qualifier out of range (m) = manual integration
 24JUL10.D 82605.M Mon Jul 24 11:32:57 2017

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL10.D Vial: 10
 Acq On : 24 Jul 2017 7:44 am Operator: MGC
 Sample : B\G1819-MSD1 Inst : MS-V5
 Misc : 5 VO-109-70506;70519;70520;70521;25ML/50 Multipl: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 7:58 2017 Quant Results File: 82605.RES
 Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL10.D Vial: 10
 Acq On : 24 Jul 2017 7:44 am Operator: MGC
 Sample : B[G1819-MSD1 Inst : MS-V5
 Misc : 5 VO-109-70506;70519;70520;70521;25ML/50 Multiplr: 1.00
 MS Integration Params: rteint.p

Quant Time: Jul 24 11:33 2017

Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)

Title : EPA Method 624/8260

Last Update : Fri Jul 21 04:19:15 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	202591	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	306542	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	78370	10.00	ug/L	0.00

Target Compounds

					Qvalue
2) ethanol	3.08	45	134888	3692.54	ug/L # 73
6) isopropyl alcohol	3.74	45	124186	737.51	ug/L # 72
7) Acrolein	3.38	56	95393	258.38	ug/L 92
8) acetone	3.55	43	222929	267.05	ug/L 98
9) tert-butyl alcohol (TBA)	4.27	59	178106	743.08	ug/L 100
10) acetonitrile	3.91	41	60692	152.66	ug/L 96
11) methyl acetate	3.96	43	4429	1.76	ug/L # 28
12) allyl chloride	3.98	41	588618	28.96	ug/L 97
13) iodomethane	3.70	142	199561	16.71	ug/L 98
14) acrylonitrile	4.43	53	107934	78.42	ug/L 95
15) carbon disulfide	3.79	76	928510	30.23	ug/L 100
16) N-Hexane	4.83	57	1725	0.13	ug/L # 72
17) diisopropyl ether	5.10	87	111651	14.75	ug/L 81
18) Vinyl acetate	5.06	43	1678446	141.95	ug/L 96
19) chloroprene	5.14	53	594213	27.82	ug/L 88
20) tert-butyl ethyl ether	5.58	59	349641	14.11	ug/L 99
21) 2-butanone (MEK)	5.79	43	201703	136.08	ug/L 97
22) propionitrile	5.88	54	181321	364.39	ug/L # 90
23) Isobutyl alcohol	6.83	43	43730	380.90	ug/L # 17
24) methacrylonitrile	6.11	67	201673	148.67	ug/L 96
26) tetrahydrofuran	6.19	42	278633	280.10	ug/L # 89
27) Cyclohexane	6.61	56	44128	1.66	ug/L # 72
28) tert-amyl methyl ether (TA	7.08	73	195872	14.37	ug/L 95
30) methyl methacrylate	7.87	69	176811	77.25	ug/L 97
31) Methylcyclohexane	7.81	55	50482	2.69	ug/L # 1
32) 1,4-dioxane	7.89	88	53037	1902.99	ug/L 94
33) Methyl isobutyl ketone(mib	8.50	43	489189	142.63	ug/L 98
34) ethyl methacrylate	8.85	69	400733	76.54	ug/L 97
35) 2-hexanone	9.10	43	648552	279.14	ug/L 96
38) cyclohexanone	10.30	55	41246	79.52	ug/L 99
39) t-1,4-dichloro-2-butene	10.42	75	183344	222.21	ug/L # 12
41) Pentachloroethane	10.80	167	67727	21.60	ug/L # 67
42) benzyl chloride	11.09	91	200985	37.69	ug/L 99

(#= qualifier out of range (m) = manual integration

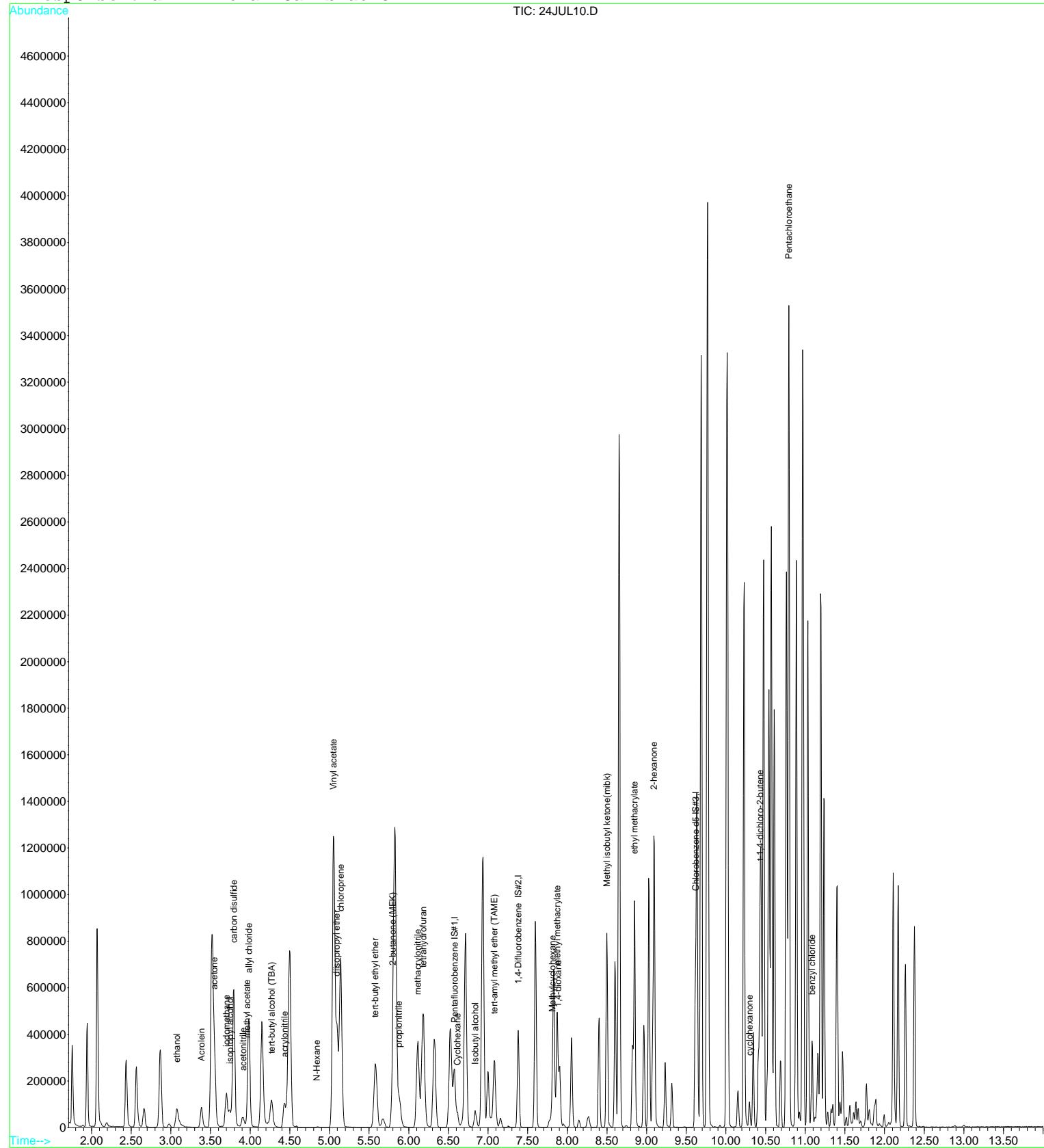
24JUL10.D 82605X.M Mon Jul 24 11:33:26 2017

Page 1

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL10.D Vial: 10
 Acq On : 24 Jul 2017 7:44 am Operator: MGC
 Sample : B[G1819-MSD1 Inst : MS-V5
 Misc : 5 VO-109-70506;70519;70520;70521;25ML/50 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 11:33 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
 Title : EPA Method 624/8260
 Last Update : Fri Jul 21 04:19:15 2017
 Response via : Initial Calibration





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Raw Data - Lab Control Sample

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL08.D Vial: 8
 Acq On : 24 Jul 2017 6:58 am Operator: MGC
 Sample : B[G1819-BS1] Inst : MS-V5
 Misc : 1 VO-109-70506;70519;70520;70521;25ML Multipllr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 24 7:12 2017

Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)

Title : EPA Method 624/524.2/8260

Last Update : Thu Jul 20 11:28:22 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	199186	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	306709	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	80327	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	50626	8.70	ug/L	0.00
Spiked Amount	10.000	Range	75 - 125	Recovery	=	87.00%
31) Toluene d8 SMC#2	8.60	98	366327	9.67	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	96.70%
49) Bromofluorobenzene SMC#3	10.34	95	113211	9.44	ug/L	0.00
Spiked Amount	10.000	Range	80 - 120	Recovery	=	94.40%

Target Compounds

2) Dichlorodifluoromethane	1.76	85	245788	24.80	ug/L	97
3) Chloromethane	1.95	50	341175	18.21	ug/L	98
4) Vinyl chloride	2.07	62	342733	22.96	ug/L	# 66
5) Bromomethane	2.44	94	153330	18.94	ug/L	91
6) Chloroethane	2.57	64	242896	23.70	ug/L	99
7) Trichlorofluoromethane	2.86	101	296637	24.18	ug/L	98
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	224703	26.68	ug/L	# 83
9) 1,1-Dichloroethene	3.51	61	414825	25.81	ug/L	96
10) Methylene chloride	4.15	84	207203	24.11	ug/L	95
11) MTBE	4.48	73	274706	22.84	ug/L	# 77
12) T-1,2-dichloroethene	4.50	96	257251	25.78	ug/L	91
13) 1,1-Dichloroethane	5.05	63	520683	24.43	ug/L	99
14) 2,2-Dichloropropane	5.83	77	306448	25.55	ug/L	93
15) Cis-1,2-dichloroethene	5.82	96	260634	25.06	ug/L	94
16) Bromochloromethane	6.17	128	77037	23.24	ug/L	# 88
17) Chloroform	6.33	83	361159	23.95	ug/L	94
18) 1,1,1-Trichloroethane	6.53	97	319059	24.44	ug/L	# 72
19) 1,1-Dichloropropene	6.72	75	331015	24.28	ug/L	94
20) Carbon tetrachloride	6.72	119	225455	25.19	ug/L	93
22) 1,2-Dichloroethane	7.00	62	181159	22.36	ug/L	# 87
23) Benzene	6.94	78	1011215	24.79	ug/L	# 6
25) Trichloroethene	7.60	130	259780	24.66	ug/L	89
26) 1,2-Dichloropropane	7.83	63	276586	23.77	ug/L	93
27) Dibromomethane	7.90	93	70874	24.13	ug/L	93
28) Bromodichloromethane	8.05	83	213353	24.16	ug/L	90
29) 2-ceve	8.27	63	267025	88.85	ug/L	# 74
30) Cis-1,3-dichloropropene	8.40	75	268236	24.33	ug/L	97
32) Toluene	8.65	92	665137	25.03	ug/L	92
33) Trans-1,3-dichloropropene	8.82	75	183084	25.44	ug/L	# 85
34) 1,1,2-Trichloroethane	8.97	97	109474	22.93	ug/L	86
35) Tetrachloroethene (PCE)	9.03	166	260444	25.80	ug/L	94
36) 1,3-Dichloropropane	9.08	76	175461	22.63	ug/L	92
37) Dibromochloromethane	9.24	129	115688	25.07	ug/L	# 93
38) 1,2-Dibromoethane	9.32	107	95474	24.06	ug/L	95
40) Chlorobenzene	9.64	112	612030	22.98	ug/L	90
41) 1,1,1,2-Tetrachloroethane	9.69	131	170899	26.07	ug/L	98
42) Ethylbenzene	9.69	106	393359	25.13	ug/L	82
43) P+m-Xylene	9.77	106	948773	49.56	ug/L	100
44) O-Xylene	10.01	106	439943	24.87	ug/L	92
45) Styrene	10.02	104	690764	25.62	ug/L	91
46) Bromoform	10.15	173	49679	25.20	ug/L	# 100
47) Isopropylbenzene	10.23	105	1165361	25.45	ug/L	98
48) 1,1,2,2-Tetrachloroethane	10.41	83	108300	24.80	ug/L	97
50) 1,2,3-Trichloropropane	10.45	110	23844	25.68	ug/L	# 13
51) n-propylbenzene	10.48	91	1422069	23.91	ug/L	93

(#= qualifier out of range (m) = manual integration

24JUL08.D 82605.M Mon Jul 24 11:30:05 2017

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL08.D Vial: 8
 Acq On : 24 Jul 2017 6:58 am Operator: MGC
 Sample : B[G1819-BS1] Inst : MS-V5
 Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 7:12 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration
 DataAcq Meth : 82605

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) bromobenzene	10.44	156	233176	24.86	ug/L	85
53) 1,3,5-trimethylbenzene	10.57	105	976777	25.77	ug/L	93
54) 2-chlorotoluene	10.54	91	885234	23.56	ug/L	99
55) 4-chlorotoluene	10.61	91	796110	23.46	ug/L	98
56) tert-butylbenzene	10.76	119	947359	25.31	ug/L	95
57) 1,2,4-trimethylbenzene	10.79	105	949193	25.29	ug/L	95
58) sec-butylbenzene	10.89	105	1326609	26.15	ug/L	99
59) 4-isopropyltoluene	10.97	119	1064980	25.75	ug/L	96
60) 1,3-Dichlorobenzene	10.97	146	471415	23.48	ug/L	93
61) 1,4-Dichlorobenzene	11.03	146	460846	23.48	ug/L	95
62) n-butylbenzene	11.19	91	979759	25.42	ug/L	97
63) 1,2-Dichlorobenzene	11.24	146	390992	22.57	ug/L	98
64) Hexachloroethane	11.40	117	150857	21.84	ug/L #	66
65) 1,2-dibromo-3-chloropropan	11.67	75	13758	23.37	ug/L	95
66) 1,2,4-trichlorobenzene	12.11	180	249096	24.83	ug/L	97
67) hexachlorobutadiene	12.17	225	162256	23.36	ug/L #	85
68) naphthalene	12.26	128	312318	24.78	ug/L	100
69) 1,2,3-trichlorobenzene	12.38	180	202036	24.00	ug/L #	90

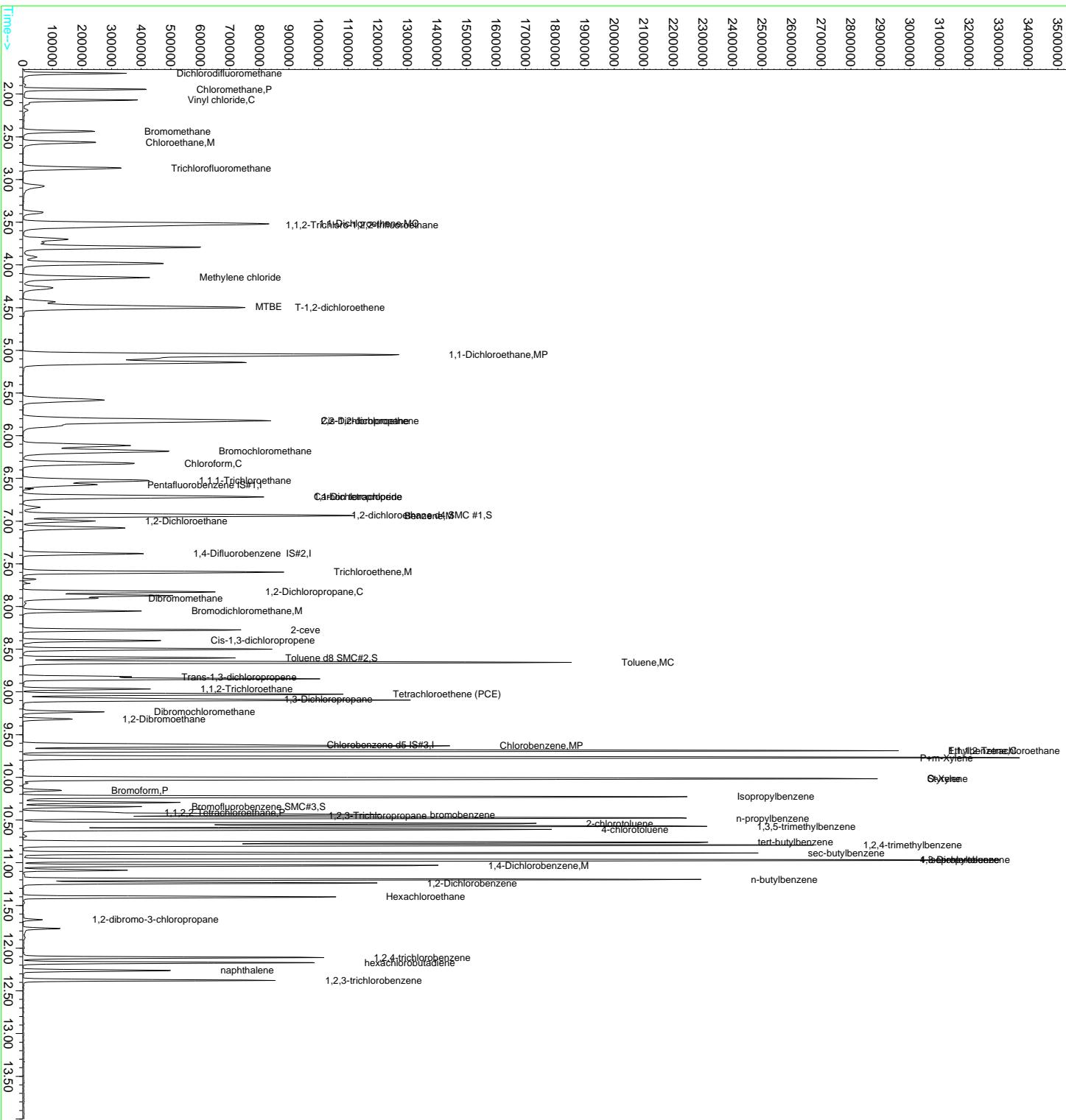
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 24JUL08.D 82605.M Mon Jul 24 11:30:05 2017

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL08.D Vial: 8
 Acq On : 24 Jul 2017 6:58 am Operator: MGC
 Sample : B\G1819-BS1 Inst: MS-V5
 Misc : 1 VO-109-70506;70519;70520;70521;25ML Multipl: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 7:12 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
 Title : EPA Method 624/524.2/8260
 Last Update : Thu Jul 20 11:28:22 2017
 Response via : Initial Calibration

TIC: 24JUL08.D



Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL08.D Vial: 8
 Acq On : 24 Jul 2017 6:58 am Operator: MGC
 Sample : B[G1819-BS1] Inst : MS-V5
 Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00

MS Integration Params: rteint.p
 Quant Time: Jul 24 11:31 2017

Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)

Title : EPA Method 624/8260

Last Update : Fri Jul 21 04:19:15 2017

Response via : Initial Calibration

DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	199186	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	306709	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	80327	10.00	ug/L	0.00

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) ethanol	3.08	45	126388	3519.00	ug/L	# 71
6) isopropyl alcohol	3.74	45	118864	717.97	ug/L	# 1
7) Acrolein	3.39	56	81912	225.66	ug/L	96
8) acetone	3.55	43	225051	274.20	ug/L	96
9) tert-butyl alcohol (TBA)	4.27	59	160712	681.97	ug/L	100
10) acetonitrile	3.91	41	63206	161.70	ug/L	94
11) methyl acetate	3.98	43	4420	1.79	ug/L	# 13
12) allyl chloride	3.99	41	604229	30.24	ug/L	97
13) iodomethane	3.70	142	215278	18.33	ug/L	99
14) acrylonitrile	4.43	53	104703	77.37	ug/L	94
15) carbon disulfide	3.79	76	948629	31.41	ug/L	99
17) diisopropyl ether	5.10	87	117766	15.82	ug/L	78
18) Vinyl acetate	5.05	43	1699413	146.18	ug/L	96
19) chloroprene	5.14	53	629332	29.97	ug/L	89
20) tert-butyl ethyl ether	5.58	59	347574	14.27	ug/L	98
21) 2-butanone (MEK)	5.80	43	208092	142.80	ug/L	95
22) propionitrile	5.88	54	182569	373.17	ug/L	# 89
23) Isobutyl alcohol	6.84	43	45279	401.14	ug/L	# 40
24) methacrylonitrile	6.12	67	201525	151.10	ug/L	95
26) tetrahydrofuran	6.18	42	277741	283.97	ug/L	# 90
28) tert-amyl methyl ether (TA)	7.07	73	199689	14.90	ug/L	88
30) methyl methacrylate	7.87	69	173731	75.87	ug/L	98
32) 1,4-dioxane	7.89	88	48972	1756.18	ug/L	96
33) Methyl isobutyl ketone(mib	8.50	43	490815	143.03	ug/L	99
34) ethyl methacrylate	8.85	69	402918	76.91	ug/L	97
35) 2-hexanone	9.09	43	648230	278.85	ug/L	96
38) cyclohexanone	10.29	55	201007	378.10	ug/L	99
39) t-1,4-dichloro-2-butene	10.43	75	185935	219.86	ug/L	# 12
41) Pentachloroethane	10.79	167	67237	20.92	ug/L	# 72
42) benzyl chloride	11.09	91	194682	35.77	ug/L	98

(#) = qualifier out of range (m) = manual integration

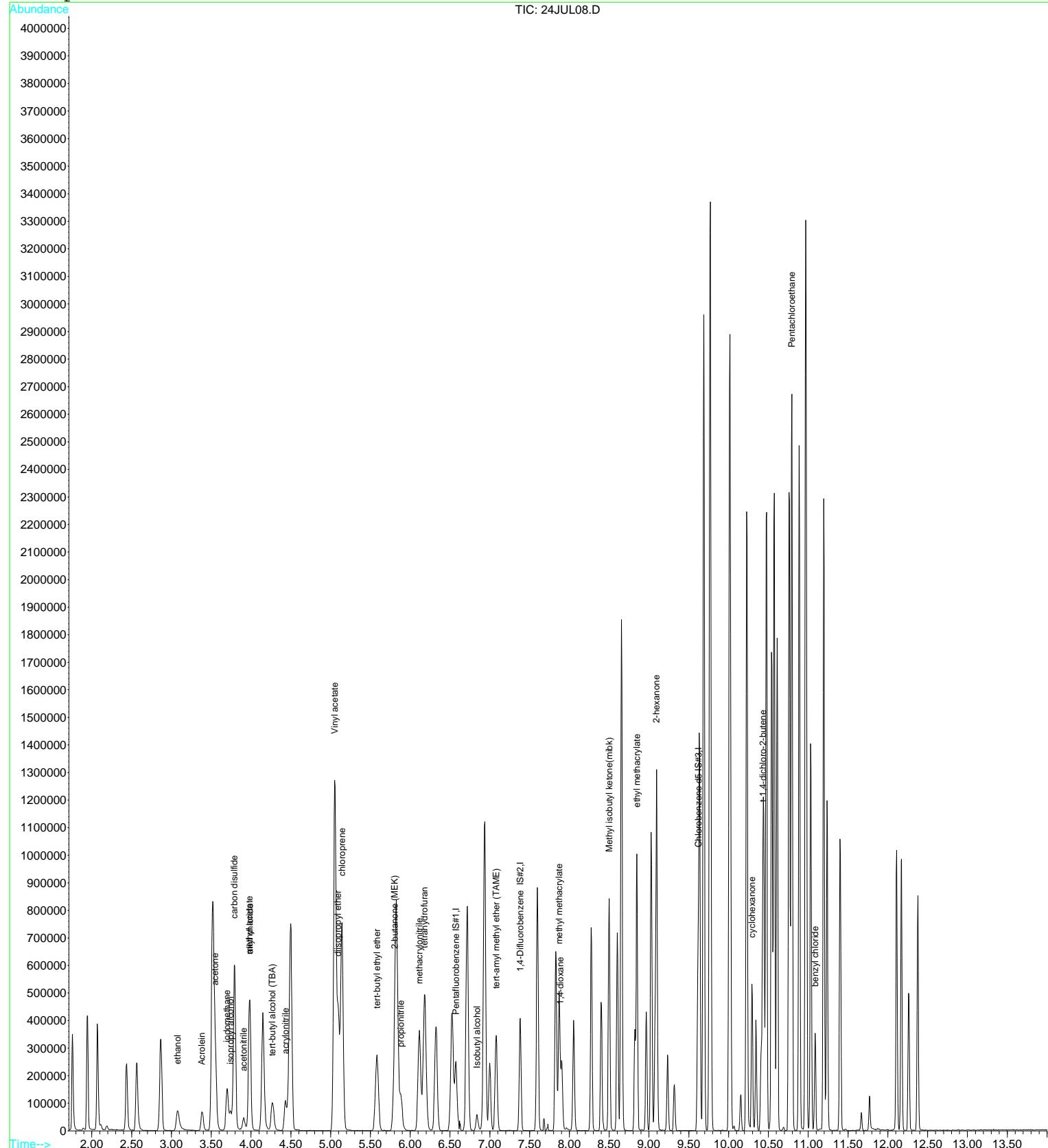
24JUL08.D 82605X.M Mon Jul 24 11:31:10 2017

Page 1

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL08.D Vial: 8
 Acq On : 24 Jul 2017 6:58 am Operator: MGC
 Sample : B[G1819-BS1] Inst : MS-V5
 Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Jul 24 11:31 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
 Title : EPA Method 624/8260
 Last Update : Fri Jul 21 04:19:15 2017
 Response via : Initial Calibration





Laboratories, Inc.

Environmental Testing Laboratory Since 1949



Raw Data - Batch Information



PREPARATION BENCH SHEET

B[G1819]

BC Laboratories

Printed: 8/1/2017 11:32:56AM

Matrix: Water

Prepared using: Volatiles - GC/MS - EPA 5030 Water MS

SurrogateUsed: 7G20041

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1719849-10 A	gm8260w Full QC Navy	7/24/2017 6:00AM	MGC	25	25					4
1719849-10RE1 B	g8260w	7/24/2017 6:00AM	MGC	25	25					4
1719849-10RE1 B	g8260w BTXE	7/24/2017 6:00AM	MGC	25	25					4
1719849-10RE1 B	g8260w Full	7/24/2017 6:00AM	MGC	25	25					4
1719849-10RE1 B	gm8260w Full QC Navy	7/24/2017 6:00AM	MGC	25	25					4
1719849-10RE1 B	gm8260w Full2 QC Navy	7/24/2017 6:00AM	MGC	25	25					4
1719849-11 A	gm8260w Full QC Navy	7/24/2017 6:00AM	MGC	25	25					4
1719849-12 A	gm8260w Full QC Navy	7/24/2017 6:00AM	MGC	25	25					4
1719849-13 A	gm8260w Full QC Navy	7/24/2017 6:00AM	MGC	25	25					4
1719853-01 A	gm8260w Full2 QC Navy	7/24/2017 6:00AM	MGC	25	25					4
1719853-02 A	gm8260w Full2 QC Navy	7/24/2017 6:00AM	MGC	25	25					4
1719853-03 A	gm8260w Full2 QC Navy	7/24/2017 6:00AM	MGC	25	25					4
1719853-04 A	gm8260w Full2 QC Navy	7/24/2017 6:00AM	MGC	25	25					4
1719853-05 A	gm8260w Full2 QC Navy	7/24/2017 6:00AM	MGC	25	25					4
1719853-06 A	gm8260w Full2 QC Navy	7/24/2017 6:00AM	MGC	25	25					4
1719853-07 A	gm8260w Full2 QC Navy	7/24/2017 6:00AM	MGC	25	25					4
1719890-01 A	g8260w Full	7/24/2017 6:00AM	MGC	25	25					4
1719962-01 B	g8260w	7/24/2017 6:00AM	MGC	25	25					4
1719962-02 B	g8260w	7/24/2017 6:00AM	MGC	25	25					4
1720077-01 A	g8260w BTXE	7/24/2017 6:00AM	MGC	25	25					4
1720077-02 A	g8260w BTXE	7/24/2017 6:00AM	MGC	25	25					4
1720077-03 A	g8260w BTXE	7/24/2017 6:00AM	MGC	25	25					4
1720077-04 A	g8260w BTXE	7/24/2017 6:00AM	MGC	25	25					4
1720134-01 C	g8260w	7/24/2017 6:00AM	MGC	25	25					4
B[G1819-BLK1]	QC	7/24/2017 6:00AM	MGC	25	25					4



PREPARATION BENCH SHEET

B|G1819

BC Laboratories

Printed: 8/1/2017 11:32:56AM

Matrix: Water

Prepared using: Volatiles - GC/MS - EPA 5030 Water MS

SurrogateUsed: 7G20041

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
B G1819-BS1	QC	7/24/2017 6:00AM	MGC	25	25	7G21007		12.5	4	
B G1819-MS1	QC	7/24/2017 6:00AM	MGC	25	25	7G21007	1719849-10RE1	62.5	4	
B G1819-MSD1	QC	7/24/2017 6:00AM	MGC	25	25	7G21007	1719849-10RE1	62.5	4	

Surrogate Mixes	Description	Solvent	Prepared	Expires
7G20041	8260 V5 WORK SURR. STD BATCH	Methanol VRL-15-5590	7/20/2017 by Miguel Chavez	10/20/2017
7G21007	8260 V5 I SPIKE COMBO	meoh	7/20/2017 by Miguel Chavez	10/20/2017



Laboratories, Inc.

Environmental Testing Laboratory Since 1949



Raw Data - Sequence Information



ANALYSIS SEQUENCE

1712752

Instrument: MS-V5
Calibration ID: 1707017 Sequence Date: 07/18/2017 Printed: 8/1/2017 11:32:56AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1712752-TUN1	QC		1		7F24002		
1712752-CAL1	QC		2		7G20044		
1712752-CAL2	QC		3		7G20045		
1712752-CAL3	QC		4		7G20046		
1712752-CAL4	QC		5		7G20047		
1712752-CAL5	QC		6		7G20048		
1712752-CAL6	QC		7		7G20049		
1712752-CAL7	QC		8		7G20056		
1712752-CAL8	QC		9		7G20057		
1712752-CAL9	QC		10		7G20058		
1712752-CALA	QC		11		7G20059		
1712752-CALB	QC		12		7G20060		
1712752-CALC	QC		13		7G20061		
1712752-TUN2	QC		14		7F24002		
1712752-CALD	QC		15		7G20063		
1712752-CALE	QC		16		7G20064		
1712752-CALF	QC		17		7G20065		
1712752-CALG	QC		18		7G20066		
1712752-CALH	QC		19		7G20067		
1712752-CALI	QC		20		7G20068		



ANALYSIS SEQUENCE

1712906

Instrument: MS-V5
Calibration ID: 1707017 Sequence Date: 07/24/2017 Printed: 8/1/2017 11:32:56AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1712906-ICV1	QC		1		7G20050		
1712906-ICB1	QC		2		7G21006		
1712906-ICV2	QC		3		7G20062		
1712906-ICB2	QC		4		7G21006		
1712906-TUN1	QC		5		7F24002		
1712906-CCV1	QC		6		7G21004		
1712906-CCV2	QC		7		7G21005		
1712906-CCV3	QC		8		7G21008		
1712906-CCB1	QC		9		7G21006		
B[G1819-BLK1]	QC		10		7G20040		
1719849-10	gm8260w Full QC Navy	A	11		7G20040		Full SAP LIST
B[G1819-BS1]	QC		12		7G20040		
B[G1819-MS1]	QC		13		7G20040		
B[G1819-MSD1]	QC		14		7G20040		
1719849-10RE1	g8260w	B	15		7G20040		BatchQC
1719849-10RE1	g8260w BTXE	B	16		7G20040		BatchQC
1719849-10RE1	g8260w Full	B	17		7G20040		BatchQC
1719849-10RE1	gm8260w Full QC Nayy	B	18		7G20040		Full SAP LIST
1719849-10RE1	gm8260w Full2 QC Navy	B	19		7G20040		BatchQC
1720077-01	g8260w BTXE	A	20		7G20040		
1720077-02	g8260w BTXE	A	21		7G20040		
1720077-03	g8260w BTXE	A	22		7G20040		
1720077-04	g8260w BTXE	A	23		7G20040		
1719849-05RE1	gm8260w Full QC Navy	D	24		7G20040		Full SAP LIST
1719843-07RE1	gm8260w Full2 QC Navy	B	25		7G20040		Btex,mtbe,tba only
1719985-01RE1	gm8260w Full QC Nayy	B	26		7G20040		standard list + TBA & tph gas
1719849-01RE1	gm8260w Full QC Navy	B	27		7G20040		Full SAP LIST
1719851-09RE1	g8260w 8010 List	B	28		7G20040		Added 7/25/2017 by MGC
B[G1853-BLK1]	QC		29		7G20040		
1720018-08	g8260w BTXE	A	30		7G20040		BatchQC
1720018-08	gm8260w Full QC Navy	A	31		7G20040		Full SAP LIST
B[G1853-BS1]	QC		32		7G20040		
B[G1853-MS1]	QC		33		7G20040		
B[G1853-MSD1]	QC		34		7G20040		
1712906-TUN2	QC		35		7F24002		
1712906-CCV4	QC		36		7G21004		
1712906-CCV5	QC		37		7G21005		
1712906-CCV6	QC		38		7G21008		
1712906-CCB2	QC		39		7G21006		



ANALYSIS SEQUENCE

1712906

Instrument: MS-V5
Calibration ID: 1707017 Sequence Date: 07/24/2017 Printed: 8/1/2017 11:32:56AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1719849-04	gm8260w Full QC Navy	A	40		7G20040		Full SAP LIST
1719849-06	gm8260w Full QC Navy	A	41		7G20040		Full SAP LIST
1719849-07	gm8260w Full QC Navy	A	42		7G20040		Full SAP LIST
1719849-08	gm8260w Full QC Navy	A	43		7G20040		Full SAP LIST
1719849-09	gm8260w Full QC Navy	A	44		7G20040		Full SAP LIST
1719849-11	gm8260w Full QC Navy	A	45		7G20040		Full SAP LIST
1719849-12	gm8260w Full QC Navy	A	46		7G20040		Full SAP LIST
1719853-01	gm8260w Full2 QC Navy	A	47		7G20040		short list - Benzene & Ethylbenzen only
1719853-02	gm8260w Full2 QC Navy	A	48		7G20040		short list - Benzene & Ethylbenzen only
1719853-03	gm8260w Full2 QC Navy	A	49		7G20040		short list - Benzene & Ethylbenzen only
1719853-04	gm8260w Full2 QC Navy	A	50		7G20040		short list - Benzene & Ethylbenzen only
1719853-05	gm8260w Full2 QC Navy	A	51		7G20040		short list - Benzene & Ethylbenzen only
1719853-06	gm8260w Full2 QC Navy	A	52		7G20040		short list - Benzene & Ethylbenzen only
1719853-07	gm8260w Full2 QC Navy	A	53		7G20040		short list - Benzene & Ethylbenzen only
1720018-01	gm8260w Full QC Navy	A	54		7G20040		Full SAP LIST
1720018-02	gm8260w Full QC Navy	A	55		7G20040		Full SAP LIST
1720018-03	gm8260w Full QC Navy	A	56		7G20040		Full SAP LIST
1720018-04	gm8260w Full QC Navy	A	57		7G20040		Full SAP LIST
1720018-05	gm8260w Full QC Navy	A	58		7G20040		Full SAP LIST
1720018-06	gm8260w Full QC Navy	A	59		7G20040		Full SAP LIST
1720018-07	gm8260w Full QC Navy	A	60		7G20040		Full SAP LIST
1720018-09	gm8260w Full QC Navy	A	61		7G20040		Full SAP LIST
1720018-10	gm8260w Full QC Navy	A	62		7G20040		Full SAP LIST
1720018-11	gm8260w Full QC Navy	A	63		7G20040		Full SAP LIST
1712906-TUN3	QC		64		7F24002		
1712906-CCV7	QC		65		7G21004		
1712906-CCV8	QC		66		7G21005		
1712906-CCV9	QC		67		7G21008		
1712906-CCB3	QC		68		7G21006		



AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/1/2017 11:32:56AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

Notes and Definitions

B	Blank contamination. The analyte is greater than 1/2 the PQL/LOQ/CRQL in the associated method blank.
D	The reported value is from a dilution.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration.
J	The reported value is an estimated value. Results are between the MDL and PQL/LOQ/CRQL.
U	The analyte was not detected and is reported as less than the LOD/MDL or as defined by the client.